

Cytokines-Interleukin Related Products

- >1500 Citations
- Published on *Nature*、 *Cell*
- 47 Targets
- 10+ Species

Protein	✓
Antibody	✓
ELISA Kit	✓

Interleukins (IL) are secreted proteins that bind to their specific receptors and play a role in intercellular communication among leukocytes. Their interactions among different cell types that contribute to their effector and suppressive functions. Almost all immune cells display different functional subsets characterized by distinct surface receptors and cytokine profiles, such as CD4 and CD8 T cells, B cells, innate lymphoid cells (ILCs), natural killer (NK) cells, and dendritic cells. A growing list of interleukins have been identified as investigations of the mechanisms of immune and inflammatory cell functions, including asthma, atopic dermatitis, allergic rhinitis, chronic rhinosinusitis(CRS), and helminth infections.

Classification	Main members
IL1F family	IL1a,IL1b,IL18,IL36a,IL36b,IL37,IL33,IL3
IL2 family	IL2,IL4,IL13,IL15,IL21
Chemokines family	IL3,IL8
IL12/IL16	IL6,IL12,IL23,IL27,IL35
IL10	IL10,IL19,IL20,IL22/ILT1F,IL24,IL26
IL17	IL17,IL25
Others	IL5, IL7,IL9,IL11,IL14,IL16,IL31,IL32

1. Excellent citations of Interleukin related products (Excerpt)

Target	Species	Core No.	Journal	IF	Pubmed ID	Institute
IL6	Simian	A079	Nature Medicine	32.621	29291351	Medical Science Research Center, Zhongnan Hospital of Wuhan University, China.
IL10	Mouse	A056	Cell Metabolism	18.164	27866837	Department of Molecular Genetics, CARIM, Maastricht University, the Netherlands
IL17	Mouse	A063	Cell Metabolism	18.164	27866837	Department of Molecular Genetics, CARIM, Maastricht University, the Netherlands
IL1b	Human	A563	Nature Chemical Biology	13.843	31332308	College of Chemistry and Molecular Engineering, Peking University, China.
IL35	Human	C008	Annals of Rheumatic Diseases	12.35	DOI:10.1136/a nnrheumdis-20 18-eular.2605	Department of Rheumatology, Ankara University Faculty of Medicine, Turkey
IL28	Human	C028	Hepatology	11.711	25130193	Center of Integrated Protein Research Munich (CIPS-M) and Division of Clinical Pharmacology, University of Munich, Germany.
IL5	Mouse	A078	Journal of Pineal Research	11.613	30929267	College of Animal Medicine, China Agricultural University, China
IL18	Mouse	A064	Journal of Pineal Research	11.613	29024030	College of Pharmacy, Harbin Medical University, China.
IL4	Human	A077	Trends in Molecular Medicine	10.732	DOI:10.29252/ rmm.5.2.3	Department of Microbiology, Faculty of Veterinary Medicine, Urmia, Iran
IL8	人	A080	Journal of Hematology & Oncology--	7.333	30621731	Department of Biopathology and Medical Biotechnologies, University of Palermo, Italy.

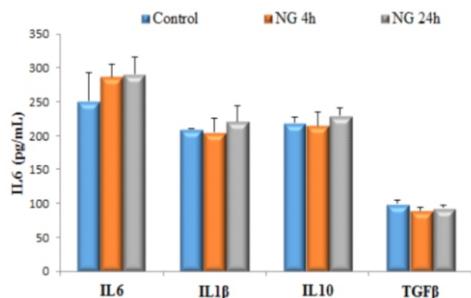


Figure. Mice were treated with NG for 4 and 24 hours and the levels of IL-6, IL-1 β , IL-10, TGF β and G-FAP analyzed.(Pasquale Picone, 2018)
(Product No.:SEA079Mu Sample type: tissue homogenate)

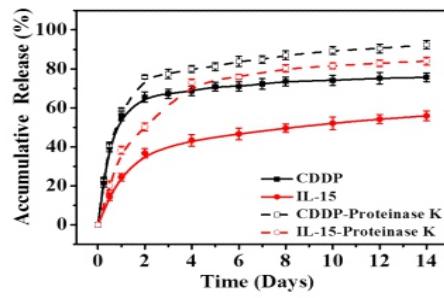


Figure. *In vitro* release kinetics of IL-5 and CDDP from the hydrogels in PBS with or without proteinase at pH 7.4. Each point indicates the average value of three measurements.(Xilong Wu, 2017)
(Product No.:SEA061Mu Sample type: hydrogels)

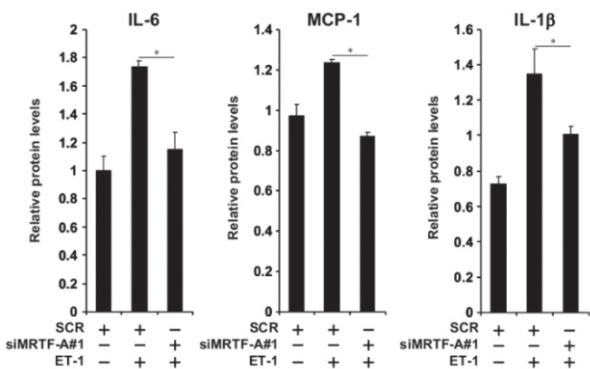


Figure . IL6 and IL-1 β levels of pro-inflammatory mediators were measured by qPCR and ELISA. (Yuyu Yang , 2014)
(Product No.: SEA563Hu Sample type: cell supernatant)

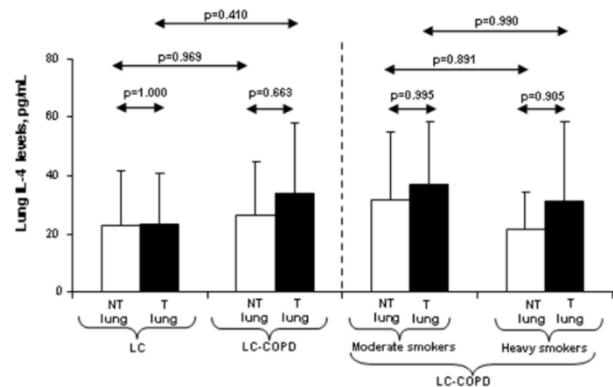


Figure . IL-4 levels detected in 639NT and T lungs are also represented in graphs for all the groups.(Mateu-Jimenez M, 2017)
(Product No.: SEA077Hu Sample type: tissue homogenate)

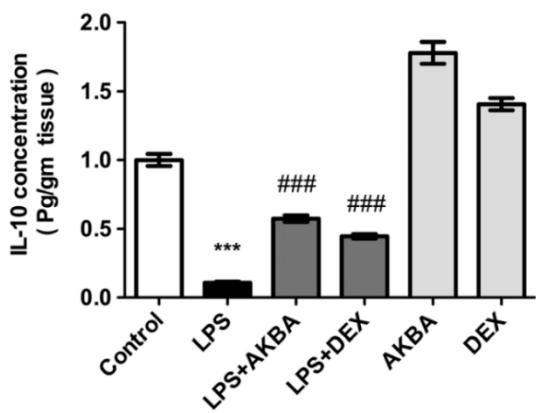


Figure . Evaluation of IL-10 cytokine inflammatory markers by ELISA assay. (Aya Shoukry Sayed, 2017)
(Product No.: SEA056Mu Sample type: tissue homogenates)

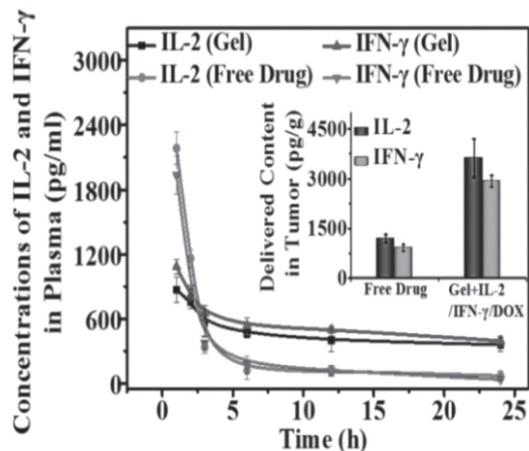


Figure . Pharmacokinetics of IL-2 and IFN-γ in the plasma and delivered drugs in the tumor of mice. (Xilong Wu, 2015)
(Product No.: SEA049Mu Sample type: plasma)

2. Citation statistics of Interleukin related products (Excerpt)

Interleukin 6 (IL6)

Product	Species	Citation
Protein/Antibody/ELISA kit	Human, Rat, Mouse, Rabbit, Pig, Cattle, Chicken, Goat, Horse	433

Excerpt:

- Ji Y X, Huang Z, Yang X, et al. The deubiquitinating enzyme cylindromatosis mitigates nonalcoholic steatohepatitis[J]. Nature medicine, 2018, 24(2): 213. (IF=32.621)
- Bakzano T, Dadsetan S, Forteza J, et al. Chronic hyperammonemia induces peripheral inflammation that leads to cognitive impairment in rats: reversal by anti-tnf α treatment[J]. Journal of Hepatology, 2019. (IF=15.040)
- Hu Y W, Guo F X, Xu Y J, et al. Long non-coding RNA mitigates atherosclerosis by regulating the actin-binding protein NEXN[J]. Journal Of Clinical Investigation, 2019, 129(3): 1115-1128. (IF=13.251)

4. Liu Q, Tong D, Liu G, et al. Metformin Inhibits Prostate Cancer Progression by Targeting Tumor-Associated Inflammatory Infiltration[J]. *Clinical Cancer Research*, 2018, 24(22): 5622-5634. (IF=11.613)
5. Yang Y, Cheng X, Tian W, et al. MRTF-A steers an epigenetic complex to activate endothelin-induced pro-inflammatory transcription in vascular smooth muscle cells[J]. *Nucleic acids research*, 2014, 42(16): 10460-10472. (IF=11.561)
6. Huang H, Wang C, Liu F, et al. Reciprocal network between cancer stem-like cells and macrophages facilitates the progression and androgen deprivation therapy resistance of prostate cancer[J]. *Clinical Cancer Research*, 2018: clincanres. 0461.2018. (IF=10.199)
7. Wang C, Peng G, Huang H, et al. Blocking the feedback loop between neuroendocrine differentiation and macrophages improves the therapeutic effects of enzalutamide (MDV3100) on prostate cancer[J]. *Clinical Cancer Research*, 2018, 24(3): 708-723. (IF=10.199)
8. Fan G C, Han L, Zhu H, et al. Ultrasensitive photoelectrochemical immunoassay for matrix metalloproteinase-2 detection based on CdS: Mn/CdTe cosensitized TiO₂ nanotubes and signal amplification of SiO₂@ Ab2 conjugates[J]. *Analytical chemistry*, 2014, 86(24): 12398-12405. (IF=8.173)

Interleukin 1 Beta([IL1b](#))

Product	Species	Citation
Protein/Antibody/ELISA kit	Human, Rat, Mouse, Rabbit, Pig, Cattle, Chicken, Goat, House	347

Excerpt:

1. Qin W, Qin K, Zhang Y, et al. S-glycosylation-based cysteine profiling reveals regulation of glycolysis by itaconate[J]. *Nature Chemical Biology*, 2019, 15(10): 983-991. (IF=13.843)
2. Gao T, Wang Z, Dong Y, et al. Role of melatonin in sleep deprivation - induced intestinal barrier dysfunction in mice[J]. *Journal of Pineal Research*, 2019, 67(1). (IF=11.613)
3. Yang Y, Cheng X, Tian W, et al. MRTF-A steers an epigenetic complex to activate endothelin-induced pro-inflammatory transcription in vascular smooth muscle cells[J]. *Nucleic acids research*, 2014, 42(16): 10460-10472. (IF=11.561)
4. Zhao Y, Wang C, Hong X, et al. Wnt/ β -catenin signaling mediates both heart and kidney injury in type 2 cardiorenal syndrome[J]. *Kidney International*, 2019, 95(4): 815-829. (IF=8.429)
5. Duris K, Lipkova J, Splichal Z, et al. Early Inflammatory Response in the Brain and Anesthesia Recovery Time Evaluation After Experimental Subarachnoid Hemorrhage[J]. *Translational stroke research*, 2018: 1-11. (IF=8.266)
6. Wang W, Chen J, Li M, et al. Rebuilding post-infarcted cardiac functions by injecting TIIA@ PDA NPs-crosslinked ROS sensitive hydrogels[J]. *ACS Applied Materials & Interfaces*, 2019, 11(3): 2880-2890. (IF=8.097)
7. Picone P, Sabatino M A, Ditta L A, et al. Nose-to-brain delivery of insulin enhanced by a nanogel carrier[J]. *Journal of Controlled Release*, 2018, 270: 23-36. (IF=7.877)
8. Li L, Wang Y, Guo R, et al. Ginsenoside Rg3-loaded, reactive oxygen species-responsive polymeric nanoparticles for alleviating myocardial ischemia-reperfusion injury[J]. *Journal of Controlled Release*, 2020: 259-272. (IF=7.877)

Interleukin 10 ([IL10](#))

Product	Species	Citation
Protein/Antibody/ELISA kit	Human, Rat, Mouse, Rabbit, Pig, Cattle, Chicken, Goat, House	171

Excerpt:

1. Van Der Vorst E, Theodorou K, Wu Y, et al. High density lipoproteins exert pro-inflammatory effects on macrophages via passive cholesterol depletion and PKC-NF- κ B/STAT1-IRF1 signaling[J]. Atherosclerosis, 2017, 263: e6. (IF=20.565)
2. Bakzano T, Dadsetan S, Forteza J, et al. Chronic hyperammonemia induces peripheral inflammation that leads to cognitive impairment in rats: reversal by anti-tnf α treatment[J]. Journal of Hepatology, 2019. (IF=15.040)
3. Gao T, Wang Z, Dong Y, et al. Role of melatonin in sleep deprivation - induced intestinal barrier dysfunction in mice[J]. Journal of Pineal Research, 2019, 67(1). (IF=11.613)
4. Picone P, Sabatino M A, Ditta L A, et al. Nose-to-brain delivery of insulin enhanced by a nanogel carrier[J]. Journal of Controlled Release, 2018, 270: 23-36. (IF=7.877)
5. Sayed A S, Gomaa I E O, Bader M, et al. Role of 3-acetyl-11-keto-beta-boswellic acid in counteracting LPS-induced neuroinflammation via modulation of miRNA-155[J]. Molecular neurobiology, 2018, 55(7): 5798-5808. (IF=6.190)
6. Elboshy M, Basalamah M A, Ahmad J, et al. Vitamin D protects against oxidative stress, inflammation and hepatorenal damage induced by acute paracetamol toxicity in rat.[J]. Free Radical Biology and Medicine, 2019: 310-321. (IF=6.020)
7. Mudo G, Frinchi M, Nuzzo D, et al. Anti-inflammatory and cognitive effects of interferon β -1a (IFN β 1a) in a rat model of Alzheimer's disease.[J]. Journal of Neuroinflammation, 2019, 16(1): 44-59. (IF=5.193)

Interleukin 4 (IL4)

Product	Species	Citation
Protein/Antibody/ELISA kit	Human, Rat, Mouse, Rabbit, Pig, Cattle, Chicken, Goat, House	100

Excerpt:

1. Norian R, Azadmehr A. Evaluation of cell-mediated immune response in PBMCs of calves vaccinated by Capri Pox vaccines using ELISA and Real-time RT-PCR[J]. Research in Molecular Medicine, 2017, 5(2): 3-8. (IF=11.021)
2. Mateu-Jimenez M, Curull V, Pijuan L, et al. Systemic and tumor Th1 and Th2 inflammatory profile and macrophages in lung cancer: influence of underlying chronic respiratory disease[J]. Journal of Thoracic Oncology, 2017, 12(2): 235-248. (IF=10.34)
3. Huang C, Wang J, Zheng X, et al. Commensal bacteria aggravate allergic asthma via NLRP3/IL-1 β signaling in post-weaning mice[J]. Journal of autoimmunity, 2018, 93: 104-113. (IF=7.607)
4. Wu P, Lu J, Zhang X, et al. single Dose of consensus hemagglutinin-Based Virus-like particles vaccine protects chickens against divergent h5 subtype influenza viruses[J]. Frontiers in immunology, 2017, 8: 1649. (IF=5.511)
5. Wu H, Zhao C, Xie Q, et al. TLR2-Melatonin feedback loop regulates the activation of NLRP3 inflammasome in murine allergic airway Inflammation[J]. Frontiers in Immunology, 2020, 11:172. (IF=4.716)

Interleukin 17 (IL17)

Product	Species	Citation
Protein/Antibody/ELISA kit	Human, Rat, Mouse, Rabbit, Pig, Cattle, Chicken, Goat, House	100

Excerpt:

1. Baker T A, Romero J, Bach IV H H, et al. Systemic release of cytokines and heat shock proteins in porcine models of polytrauma and hemorrhage[J]. Critical care medicine, 2012, 40(3): 876. (IF=7.422)

2. Elboshy M, Basalamah M A, Ahmad J, et al. Vitamin D protects against oxidative stress, inflammation and hepatorenal damage induced by acute paracetamol toxicity in rat[J]. Free Radical Biology and Medicine, 2019; 310-321. (IF=6.020)
3. Wang A, Wang F, Yin Y, et al. Dexamethasone reduces serum level of IL-17 in Bleomycin-A5-induced rats model of pulmonary fibrosis[J]. Artificial cells, nanomedicine, and biotechnology, 2018, 46(4): 783-787. (IF=5.605)
4. Chen K, Sun Y J, Dong W, et al. Activated A7nachr improves postoperative cognitive dysfunction and intestinal injury induced by cardiopulmonary bypass in rats: inhibition of the proinflammatory response through the Th17 immune response[J]. Cellular Physiology and Biochemistry, 2018, 46(3): 1175-1188. (IF=5.500)
5. Chang S L, Hsiao Y W, Tsai Y N, et al. Interleukin-17 enhances cardiac ventricular remodeling via activating MAPK pathway in ischemic heart failure[J]. Journal of molecular and cellular cardiology, 2018, 122: 69-79. (IF=5.296)

Interleukin 2 (IL2)

Product	Species	Citation
Protein/Antibody/ELISA kit	Human, Rat, Mouse, Rabbit, Pig, Cattle, Chicken, Goat, House	67

Excerpt:

1. Quan M, Song X, Liu H, et al. Amlexanox attenuates experimental autoimmune encephalomyelitis by inhibiting dendritic cell maturation and reprogramming effector and regulatory T cell responses[J]. Journal of Neuroinflammation, 2019, 16(1). (IF=5.193)
2. Gomes-da-Silva L C, Fernández Y, Abasolo I, et al. Efficient intracellular delivery of siRNA with a safe multitargeted lipid-based nanoparticle[J]. Nanomedicine, 2013, 8(9): 1397-1413. (IF=5.005)
3. Li H, Huang T, Wang Y, Pan B, et al. Toxicity of alumina nanoparticles to immune system in mice[J]. Nanomedicine, 2020, 15(9): 927-946. (IF=4.717)
4. Zhang Q, Bao C, Cai X, et al. Sonodynamic therapy - assisted immunotherapy: A novel modality for cancer treatment[J]. Cancer science, 2018, 109(5): 1330. (IF=4.372)
5. Zhang Y, Wu C, Luo T, et al. Synthesis and inflammatory response of a novel silk fibroin scaffold containing BMP7 adenovirus for bone regeneration[J]. Bone, 2012, 51(4): 704-713. (IF=3.736)

Interleukin 8 (IL8)

Product	Species	Citation
Protein/Antibody/ELISA kit	Human, Rabbit, Pig, Cattle, Chicken, Goat, House	64

Excerpt:

1. Raimondo S, Saieva L, Vicario E, et al. Multiple myeloma-derived exosomes are enriched of amphiregulin (AREG) and activate the epidermal growth factor pathway in the bone microenvironment leading to osteoclastogenesis[J]. Journal of Hematology & Oncology, 2019, 12(1): 1-15. (IF=7.333)
2. Zheng K, Xu M, Xiao Y, et al. Immunogenicity and protective efficacy against *Treponema pallidum* in New Zealand rabbits immunized with plasmid DNA encoding flagellin[J]. Emerging microbes & infections, 2018, 7(1): 1-10. (IF=6.032)
3. Luo J Y, Li X M, Zhou Y, et al. Mutant DD genotype of NFKB1 gene is associated with the susceptibility and severity of coronary artery disease[J]. Journal of molecular and cellular cardiology, 2017, 103: 56-64. (IF=5.680)
4. Wang A, Wang F, Yin Y, et al. Dexamethasone reduces serum level of IL-17 in Bleomycin-A5-induced rats model of pulmonary fibrosis[J]. Artificial cells, nanomedicine, and biotechnology, 2018, 46(4): 783-787. (IF=5.605)

3. Cloud-Clone Interleukin related targets

Target	Core No.	Product	Target	Core No.	Product
IL6	A079	Protein/Antibody/ELISA kit	IL4I1	H816	Protein/Antibody/ELISA kit
IL1b	A563	Protein/Antibody/ELISA kit	IL1RAPL2	H817	Protein/Antibody/ELISA kit
IL10	A056	Protein/Antibody/ELISA kit	IL22	C032	Protein/Antibody/ELISA kit
IL4	A077	Protein/Antibody/ELISA kit	IL24	C064	Protein/Antibody/ELISA kit
IL17	A063	Protein/Antibody/ELISA kit	IL1z	E842	Protein/Antibody/ELISA kit
IL2	A073	Protein/Antibody/ELISA kit	IL27	A385	Protein/Antibody/ELISA kit
IL8	A080	Protein/Antibody/ELISA kit	IL21	B688	Protein/Antibody/ELISA kit
IL18	A064	Protein/Antibody/ELISA kit	IL3	A076	Protein/Antibody/ELISA kit
IL35	C008	Protein/Antibody/ELISA kit	IL19	B190	Protein/Antibody/ELISA kit
IL13	A060	Protein/Antibody/ELISA kit	IL28A	B689	Protein/Antibody/ELISA kit
IL1a	A071	Protein/Antibody/ELISA kit	IL1RAP	H819	Protein/Antibody/ELISA kit
IL5	A078	Protein/Antibody/ELISA kit	IL7	A662	Protein/Antibody/ELISA kit
IL33	B980	Protein/Antibody/ELISA kit	IL17F	B955	Protein/Antibody/ELISA kit
IL1RA	A223	Protein/Antibody/ELISA kit	IL20	C058	Protein/Antibody/ELISA kit
IL31	B179	Protein/Antibody/ELISA kit	IL11	A057	Protein/Antibody/ELISA kit
IL25	B694	Protein/Antibody/ELISA kit	IL17C	D347	Protein/Antibody/ELISA kit
IL15	A061	Protein/Antibody/ELISA kit	IL9	A081	Protein/Antibody/ELISA kit
IL28B	C028	Protein/Antibody/ELISA kit	FIL1d	A566	Protein/Antibody/ELISA kit
IL23	A384	Protein/Antibody/ELISA kit	IL16	A062	Protein/Antibody/ELISA kit
IL12B	A058	Protein/Antibody/ELISA kit	IL17B	B700	Protein/Antibody/ELISA kit
IL12A	A059	Protein/Antibody/ELISA kit	IL29	C029	Protein/Antibody/ELISA kit
IL18BP	H821	Protein/Antibody/ELISA kit	IL17D	D346	Protein/Antibody/ELISA kit
IL34	C007	Protein/Antibody/ELISA kit	IL1e	E843	Protein/Antibody/ELISA kit
IL1F9	L621	Protein/Antibody/ELISA kit			

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