Datasheet for ABIN739385

anti-IL-6 antibody (AA 101-150)

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Overview

Quantity:	100 µL
Target:	IL-6 (IL6)
Binding Specificity:	AA 101-150
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IL-6 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from mouse IL-6
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	IL-6 (IL6)
Alternative Name:	IL-6 (IL6 Products)

Target Details

Background:	Synonyms: Il-6, Interleukin-6, B-cell hybridoma growth factor, Interleukin HP-1, Il6 Background: Cytokine with a wide variety of biological functions. It is a potent inducer of the acute phase response. Plays an essential role in the final differentiation of B-cells into Ig-secreting cells Involved in lymphocyte and monocyte differentiation. Acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. Required for the generation of T(H)17 cells. Also acts as a myokine. It is discharged into the bloodstream after muscle contraction and acts to increase the breakdown of fats and to improve insulin resistance. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation.
Gene ID:	16193
UniProt:	P08505
Pathways:	TLR Signaling, Hormone Transport, Negative Regulation of Hormone Secretion, Myometrial Relaxation and Contraction, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Regulation of Carbohydrate Metabolic Process, Autophagy, Cell RedoxHomeostasis, Cancer Immune Checkpoints, Inflammasome

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling

Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

Ding, Ren, Yu, Yu, Zhou: "Porphyromonas gingivalis, a periodontitis causing bacterium, induces memory impairment and age-dependent neuroinflammation in mice." in: **Immunity & ageing : I & A**, Vol. 15, pp. 6, (2018) (PubMed).

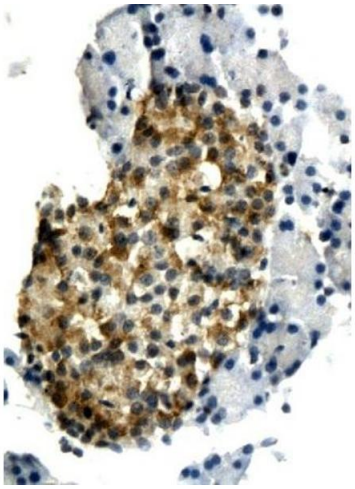
Xi, Wang, Chen, Yang, Hu, Zhang, Weng, Xu: "Expressions of IL-6, TNF-α and NF-κB in the skin of Chinese brown frog (Rana dybowskii)." in: **European journal of histochemistry : EJH**, Vol. 61, Issue 4, pp. 2834, (2018) (PubMed).

Ehrnthaller, Huber-Lang, Kovtun, Rapp, Kemmler, Gebhard, Ignatius: "C5aR inhibition in the early inflammatory phase does not affect bone regeneration in a model of uneventful fracture healing." in: **European journal of medical research**, Vol. 21, Issue 1, pp. 42, (2017) (PubMed).

Hong, Huang, Liu, Tsai: "Djulis (Chenopodium formosanum Koidz.) Water Extract and Its Bioactive Components Ameliorate Dermal Damage in UVB-Irradiated Skin Models." in: **BioMed research international**, Vol. 2016, pp. 7368797, (2017) (PubMed).

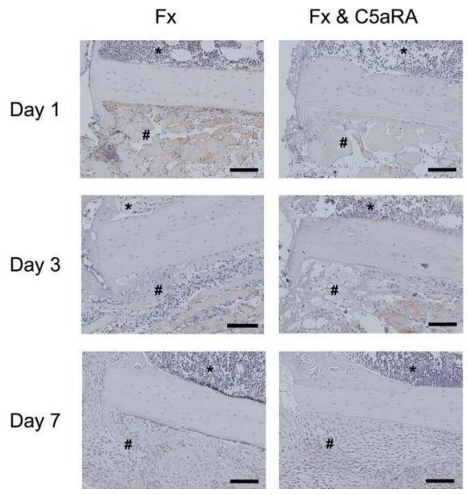
There are more publications referencing this product on: Product page

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat pancreas tissue labeled with Anti-IL-6 Polyclonal Antibody, Unconjugated (ABIN739385) followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunostaining of IL-6 on day 1, 3 and 7 in tissue sections of control animals (Fx) and after administration of C5aRA (Fx & C5aRA) showing the callus region in detail (fracture gap on the left, cortex in the middle, bone marrow on top (*) and periosteal callus (#) on the bottom of the image. Size of the scale bar = 100 µm (200-fold magnification) - figure provided by CiteAb. Source: PMID27784330