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Datasheet for ABIN728068
anti-IL-6 antibody (AA 26-50)

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Overview

Quantity:	100 µL
Target:	IL-6 (IL6)
Binding Specificity:	AA 26-50
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IL-6 antibody is un-conjugated
Application:	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 human IL-6
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Purification:	Purified by Protein A.

Target Details

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

Target Details

Background: Synonyms: HGF, HSF, BSF2, IL-6, IFNB2, Interleukin-6, B-cell stimulatory factor 2, BSF-2, CTL differentiation factor, CDF, Hybridoma growth factor, Interferon beta-2, IFN-beta-2, 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: 3569

UniProt: [P05231](#)

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: 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

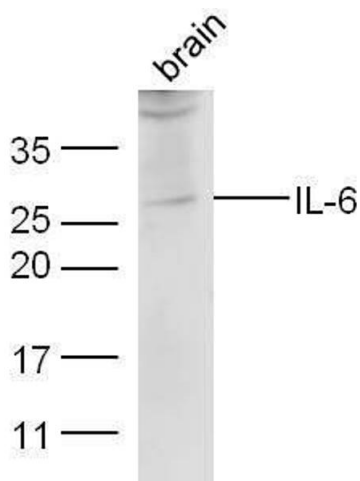
Product cited in: Sun, Pei, Zhang, Zhang, Zhang, Liu, Cui, Pan, Zhang: "Significance of interstitial tumor-associated macrophages in the progression of lung adenocarcinoma." in: **Oncology letters**, Vol. 12, Issue 6, pp. 4467-4476, (2016) ([PubMed](#)).

Han, Lu, Zhao, Wang, Li, Wang: "Electroacupuncture modulated the inflammatory reaction in MCAO rats via inhibiting the TLR4/NF-κB signaling pathway in microglia." in: **International journal of clinical and experimental pathology**, Vol. 8, Issue 9, pp. 11199-205, (2016) ([PubMed](#)).

Xu, Huang, Xie, Lin, Guo, Zhuang, Lin, Zhou, Li, Huang, Wei, Man, Zhang: "The expression of cytoglobin as a prognostic factor in gliomas: a retrospective analysis of 88 patients." in: **BMC cancer**, Vol. 13, pp. 247, (2013) ([PubMed](#)).

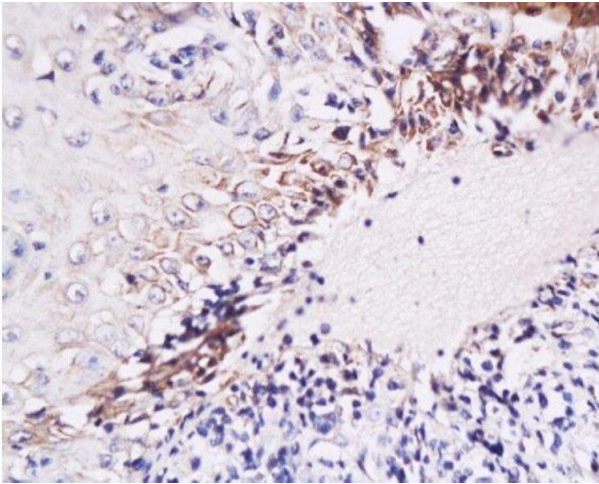
Xiong, Yang, Wu, Zhu: "Aqueous synthesis of color-tunable CuInS₂/ZnS nanocrystals for the detection of human interleukin 6." in: **ACS applied materials & interfaces**, Vol. 5, Issue 16, pp. 8210-6, (2013) ([PubMed](#)).

Images



Western Blotting

Image 1. Mouse brain lysate probed with Anti-IL-6 Polyclonal Antibody at 1:5000 90min in 37°C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded Human oral mucosa labeled with Anti-IL-6(human) Polyclonal Antibody, Unconjugated at 1:200, followed by conjugation to the secondary antibody and DAB staining