

Datasheet for ABIN3043248

anti-IL-6 antibody (AA 25-211)



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Overview

Quantity:	100 µg
Target:	IL-6 (IL6)
Binding Specificity:	AA 25-211
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IL-6 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-IL6 Antibody Picoband®
Immunogen:	E.coli-derived mouse IL-6 recombinant protein (Position: F25-T211). Mouse IL-6 shares 40% and 85% amino acid (aa) sequences identity with human and rat IL-6, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-IL6 Antibody Picoband® (ABIN3043248). Tested in ELISA, WB applications. This antibody reacts with Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	IL-6 (IL6)
Alternative Name:	IL6 (IL6 Products)
Background:	<p>Synonyms: Interleukin-6,IL-6,B-cell hybridoma growth factor,Interleukin HP-1,IL6,IL-6,</p> <p>Tissue Specificity: Widely distributed in various tissues.</p> <p>Background: Interleukin-6 (IL-6) is a protein that in humans is encoded by the IL6 gene. IL-6 is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. IL-6 is one of the most important mediators of fever and of the acute phase response. IL-6 is also essential for hybridoma growth and is found in many supplemental cloning media such as briclone. Bowcock et al. (1988) assigned the IL6 gene to chromosome 7p21. By in situ hybridization and Southern blot analysis of mouse-human hybrid cell lines, Sutherland et al. (1988) mapped the IL-6 gene to chromosome 7p15.</p> <p>Sequence Similarities: Belongs to the actin-binding proteins ADF family.</p>
Molecular Weight:	24 kDa
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:	<p>ELISA, 0.1-0.5 µg/mL, -</p> <p>Western blot, 0.1-0.5 µg/mL, Mouse</p> <p>1. Ferguson-Smith AC, Chen YF, Newman MS, May LT, Sehgal PB, Ruddle FH (April 1988). "Regional localization of the interferon-beta 2/B-cell stimulatory factor 2/hepatocyte stimulating factor gene to human chromosome 7p15-p21".</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

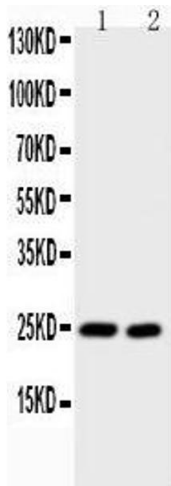
Publications

Product cited in:	<p>Wu, Li, Cui, Wu, Hong, Li, Wu, Jie, Wang, Li: "The Natural Flavone Acacetin Confers Cardiomyocyte Protection Against Hypoxia/Reoxygenation Injury via AMPK-Mediated Activation of Nrf2 Signaling Pathway." in: Frontiers in pharmacology, Vol. 9, pp. 497, (2018) (PubMed).</p> <p>Lu, Kang, Hu, Tang, Zhou, Yu, Li, Xu: "Angiotensin-(1-7) inhibits inflammation and oxidative stress to relieve lung injury induced by chronic intermittent hypoxia in rats." in: Brazilian journal of medical and biological research = Revista brasileira de pesquisas medicas e biologicas, Vol. 49, Issue 10, pp. e5431, (2017) (PubMed).</p> <p>Chen, Zhao, Zhang, Yang, Zhao, Zhang, Yan, Pan, Li, Zhang, Li: "Tangshen Formula Attenuates Colonic Structure Remodeling in Type 2 Diabetic Rats." in: Evidence-based complementary and alternative medicine : eCAM, Vol. 2017, pp. 4064156, (2017) (PubMed).</p> <p>Li, Lu, Sun, Zuo, Wang, Yan: "Inhibition of endoplasmic reticulum stress signaling pathway: A new mechanism of statins to suppress the development of abdominal aortic aneurysm." in: PLoS ONE, Vol. 12, Issue 4, pp. e0174821, (2017) (PubMed).</p> <p>Chen, Wang, Li, Jiang, Lu, Zhou: "Heme Oxygenase-1 Promotes Delayed Wound Healing in</p>
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Diabetic Rats." in: **Journal of diabetes research**, Vol. 2016, pp. 9726503, (2016) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. Anti-IL6 Picoband antibody, All lanes: Anti-IL6 at 0.5ug/ml Lane 1: HEPA Whole Cell Lysate at 40ug Lane 2: NIH Whole Cell Lysate at 40ug Predicted bind size: 24KD Observed bind size: 24KD