

Datasheet for ABIN3042526

anti-IL-6 antibody (AA 25-211)**2** Images**27** Publications[Go to Product page](#)

Overview

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

Product Details

Purpose:	Rabbit IgG polyclonal antibody for interleukin 6 (interferon, beta 2)(IL6) detection. Tested with WB in Rat.
Brand:	Picoband™
Immunogen:	E.coli-derived rat IL-6 recombinant protein (Position: F25-T211). Rat IL-6 shares 86% amino acid (aa) sequence identity with mouse IL-6.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for interleukin 6 (interferon, beta 2)(IL6) detection. Tested with WB in Rat.</p> <p>Gene Name: interleukin 6 (interferon, beta 2)</p> <p>Protein Name: Interleukin-6</p>

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: IL-6 (IL6)

Alternative Name: IL6 ([IL6 Products](#))

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.

Synonyms: Interleukin BSF 2 antibody|B cell differentiation factor antibody|B cell stimulatory factor 2 antibody|B-cell stimulatory factor 2 antibody|BSF 2 antibody|BSF-2 antibody|BSF2 antibody|CDF antibody|CTL differentiation factor antibody|Cytotoxic T cell differentiation factor antibody|Hepatocyte stimulating factor antibody|HGF antibody|HPGF antibody|HSF antibody|Hybridoma growth factor antibody|Hybridoma growth factor Interferon beta-2 antibody|Hybridoma plasmacytoma growth factor antibody|IFN-beta-2 antibody|IFNB2 antibody|IL 6 antibody|IL-6 antibody|IL6 antibody|IL6 protein antibody|Interferon beta 2 antibody|Interferon beta-2 antibody|Interleukin 6(interferon beta 2) antibody|Interleukin 6 antibody|Interleukin-6 antibody|Interleukin6 antibody

UniProt: [P20607](#)

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: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, The detection limit for IL-6 is approximately 5 ng/lane under reducing conditions.

Notes: Tested Species: Species with positive results.

Application Details

Other applications have not been tested. Optimal dilutions should be determined by end users.

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 Na₂HPO₄, 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: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: 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](#)).

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](#)).

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](#)).

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](#)).

Chen, Wang, Li, Jiang, Lu, Zhou: "Heme Oxygenase-1 Promotes Delayed Wound Healing in Diabetic Rats." in: **Journal of diabetes research**, Vol. 2016, pp. 9726503, (2016) ([PubMed](#)).

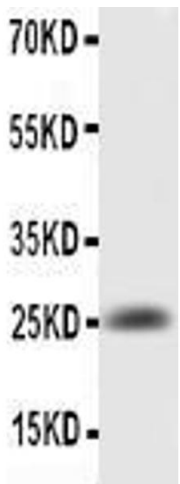
There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. Anti-IL6 Picoband antibody, All lanes: Anti-IL6 at 0.5ug/ml WB: Recombinant Rat IL6 Protein 0.5ng Predicted bind size: 25KD Observed bind size: 25KD



Western Blotting

Image 2. Anti-IL-6 Picoband antibody, All lanes: Anti-IL-6 at 0.5ug/mlWB: Recombinant Rat IL-6 Protein 0.5ngPredicted bind size: 25KDObserved bind size: 25KD