

Datasheet for ABIN3042801
anti-IL-18 antibody (AA 36-192)



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Overview

Quantity:	100 µg
Target:	IL-18 (IL18)
Binding Specificity:	AA 36-192
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IL-18 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Interleukin-18(IL18) detection. Tested with WB, ELISA in Mouse.
Immunogen:	E. coli-derived mouse IL-18 recombinant protein(Position: N36-S192).
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Interleukin-18(IL18) detection. Tested with WB, ELISA in Mouse. Gene Name: interleukin 18(interferon-gamma-inducing factor) Protein Name: Interleukin-18
Purification:	Immunogen affinity purified.

Target Details

Target: IL-18 (IL18)

Alternative Name: IL18 ([IL18 Products](#))

Background: Interleukin-18 also known as IL18 is a protein which in humans is encoded by the IL18 gene. The protein encoded by this gene is a proinflammatory cytokine. IL-18 is a cytokine produced by macrophages and other cells that belongs to the IL-1 superfamily. IL-18 works by binding to the interleukin-18 receptor, and together with IL-12 it induces cell-mediated immunity following infection with microbial products like lipopolysaccharide(LPS). After stimulation with IL-18, natural killer(NK) cells and certain T cells release another important cytokine called interferon-gamma(IFN-gamma) or type II interferon that plays an important role in activating the macrophages or other cells. The combination of this cytokine and IL12 has been shown to inhibit IL4 dependent IgE and IgG1 production, and enhance IgG2a production in B cells. IL-18 binding protein(IL18BP) can specifically interact with this cytokine, and thus negatively regulate its biological activity. The human interleukin 18 gene IL18 maps to 11q22.2-q22.3, closely linked to the DRD2 gene locus and distinct from mapped IDDM loci.

Synonyms: Iboctadekin antibody|IFN gamma inducing factor antibody|IFN-gamma-inducing factor antibody|IGIF antibody|IL 1 gamma antibody|IL 18 antibody|IL 1g antibody|IL-1 gamma antibody|IL-18 antibody|IL1 gamma antibody|IL18 antibody|IL18 protein antibody|IL1F4 antibody|IL1g antibody|IL1gamma antibody|IL1F4 antibody|Interferon gamma inducing factor antibody|Interferon gamma-inducing factor antibody|Interleukin 1 gamma antibody|Interleukin 18 antibody|Interleukin-1 gamma antibody|Interleukin-18 antibody|Interleukin18 antibody|MGC12320 antibody

UniProt: [P70380](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#), [Activated T Cell Proliferation](#), [Cancer Immune Checkpoints](#), [Inflammasome](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Species: Mouse
ELISA: Concentration: 0.1-0.5 µg/mL, Species: Mouse

Notes: 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.

Application Details

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 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.

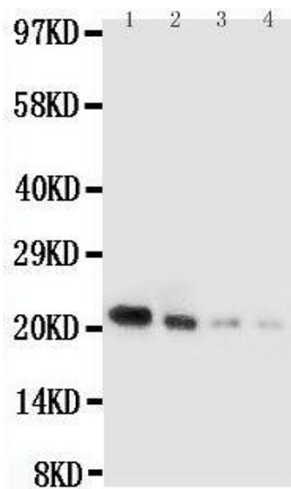
Expiry Date: 12 months

Publications

Product cited in: Si, Zhang, Gao, Chen, Zhao, Cheng: "Effects of IFN- γ on IL-18 Expression in Pregnant Rats and Pregnancy Outcomes." in: **Asian-Australasian journal of animal sciences**, Vol. 26, Issue 10, pp. 1399-405, (2014) ([PubMed](#)).

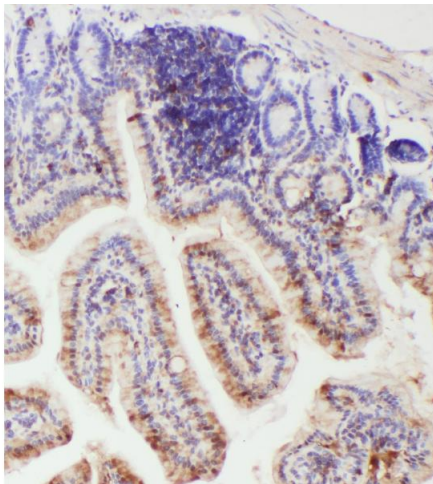
Wang, Zhang, Zhang, Xu, Fang: "Expression and localization of IL-18 in the hypothalamic-pituitary-ovarian axis of non-pregnant, pregnant, and abortive rats." in: **Journal of reproductive immunology**, Vol. 92, Issue 1-2, pp. 45-53, (2011) ([PubMed](#)).

Yang, Shen, Chen, Ge: "Role of interleukin 18 in acute lung inflammation induced by gut ischemia reperfusion." in: **World journal of gastroenterology**, Vol. 11, Issue 29, pp. 4524-9, (2005) ([PubMed](#)).



Western Blotting

Image 1. Anti-mouse IL18 antibody, Western blotting Lane 1: Recombinant Mouse IL18 Protein 10ng Lane 2: Recombinant Mouse IL18 Protein 5ng Lane 3: Recombinant Mouse IL18 Protein 2 Lane 4: Recombinant Mouse IL18 Protein 1



Immunohistochemistry

Image 2. IHC analysis of IL-18 using anti- IL-18 antibody . IL-18 was detected in paraffin-embedded section of mouse intestine tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti- IL-18 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.