

Datasheet for ABIN5518763

anti-IL-13 antibody (AA 36-146)**2** Images**5** Publications[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	IL-13 (IL13)
Binding Specificity:	AA 36-146
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IL-13 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Interleukin-13(IL13) detection. Tested with WB, IHC-P in Human.
Immunogen:	E. coli-derived human IL13 recombinant protein (Position: P36-N146). Human IL13 shares 55.3% and 61.9% amino acid (aa) sequence identity with mouse and rat IL13, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Interleukin-13(IL13) detection. Tested with WB, IHC-P in Human.</p> <p>Gene Name: interleukin 13</p> <p>Protein Name: Interleukin-13</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	IL-13 (IL13)
Alternative Name:	IL13 (IL13 Products)
Background:	<p>Interleukin 13 is a protein that in humans is encoded by the IL-13 gene. It is a kind of cytokine secreted by many cell types, but especially T helper type 2 (Th2) cells, which is an important mediator of allergic inflammation and disease. The IL-13 gene is mapped to 5q23-q31. IL-13 induces its effects through a multi-subunit receptor that includes the alpha chain of the IL-4 receptor (IL-4Rα) and at least one of two known IL-13-specific binding chains. Furthermore, this gene acts more prominently as a molecular bridge linking allergic inflammatory cells to the non-immune cells in contact with them, thereby altering physiological function.</p> <p>Synonyms: ALRH IL 13 IL13 IL-13 il13ra2 interleukin 13 Interleukin13 Interleukin-13 Interleukin13(IL13) Interleukin-13(IL-13) NC30</p>
Gene ID:	3596
UniProt:	P35225
Pathways:	JAK-STAT Signaling , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Proton Transport

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Human</p> <p>IHC-P: Concentration: 0.5-1 μg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

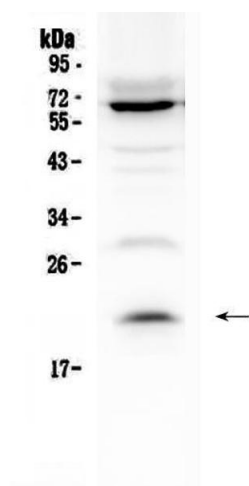
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μ g/mL.
Concentration:	500 μ g/mL

Handling

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.
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.

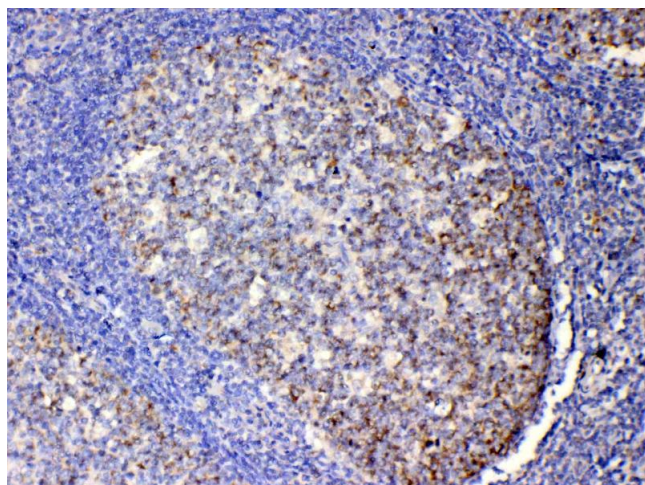
Publications

Product cited in:	<p>Liu, Wang, Cao, Liu, Zou, Li, Yang, Jiao: "Number 2 Feibi Recipe Reduces PM2.5-Induced Lung Injury in Rats." in: Evidence-based complementary and alternative medicine : eCAM, Vol. 2018 , pp. 3674145, (2018) (PubMed).</p> <p>Zhu, Li, Wu, Lu, You, Li, Li, Yang, Duan: "Acute exposure of ozone induced pulmonary injury and the protective role of vitamin E through the Nrf2 pathway in Balb/c mice." in: Toxicology research, Vol. 5, Issue 1, pp. 268-277, (2018) (PubMed).</p> <p>Li, Zhang, Qin, Bi, Liu, Li, Cai, Ma, Chan, Xie, Guan: "CD68 and interleukin 13, prospective immune markers for esophageal squamous cell carcinoma prognosis prediction." in: Oncotarget, Vol. 7, Issue 13, pp. 15525-38, (2017) (PubMed).</p> <p>Wang, Liang, Wang, Zhu, Gong, Zhang, Li, Xia: "Th17 down-regulation is involved in reduced progression of schistosomiasis fibrosis in ICOSL KO mice." in: PLoS neglected tropical diseases, Vol. 9, Issue 1, pp. e0003434, (2016) (PubMed).</p> <p>Long, Chen, Zhao, Rafaels, Mathias, Liang, Potee, Campbell, Zhang, Gao, Georas, Vercelli, Beaty, Ruczinski, Mathias, Barnes, Chen: "An IL-13 promoter polymorphism associated with liver fibrosis in patients with Schistosoma japonicum." in: PLoS ONE, Vol. 10, Issue 8, pp. e0135360, (2016) (PubMed).</p>
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Western Blotting

Image 1. Western blot analysis of IL13 using anti-IL13 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50µg of sample under reducing conditions. Lane 1: K562 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IL13 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for IL13 at approximately 20KD. The expected band size for IL13 is at 16KD.



Immunohistochemistry

Image 2. IHC analysis of IL13 using anti-IL13 antibody. IL13 was detected in paraffin-embedded section of human tonsil 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-IL13 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.