

Datasheet for ABIN5519010 anti-IL12B antibody (AA 23-250)



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2 Images

1 Publication

Overview

Quantity:	100 µg
Target:	IL12B
Binding Specificity:	AA 23-250
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for IL12B detection. Tested with WB, IHC-P, Direct ELISA in Mouse,Rat.
Immunogen:	E. coli-derived rat IL12B recombinant protein (Position: M23-E250).
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for IL12B detection. Tested with WB, IHC-P, Direct ELISA in Mouse,Rat. Gene Name: interleukin 12B Protein Name: Interleukin-12 subunit beta
Purification:	Immunogen affinity purified.

Target Details

Target:	IL12B
Alternative Name:	IL12b (IL12B Products)
Background:	<p>Subunit beta of interleukin 12 (IL12B), also known as interleukin 12B, or interleukin-12 subunit p40, is a subunit of human interleukin 12. It is mapped to 5q33.3. This cytokine is expressed by activated macrophages that serve as an essential inducer of Th1 cells development. This cytokine has been found to be important for sustaining a sufficient number of memory/effector Th1 cells to mediate long-term protection to an intracellular pathogen. Overexpression of this gene was observed in the central nervous system of patients with multiple sclerosis (MS), suggesting a role of this cytokine in the pathogenesis of the disease.</p> <p>Synonyms: Interleukin-12 subunit beta</p>
Gene ID:	64546
Pathways:	JAK-STAT Signaling , Cellular Response to Molecule of Bacterial Origin , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Activated T Cell Proliferation

Application Details

Application Notes:	Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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

Handling

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

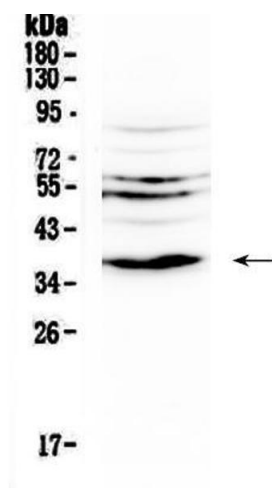
Product cited in: Ozcan, Canpolat, Bulmus, Ulker, Tektemur, Tekin, Ozcan, Serhatlioglu, Kacar, Ayar, Kelestimur: "Agomelatine pretreatment prevents development of hyperglycemia and hypoinsulinemia in streptozotocin-induced diabetes in mice." in: **Fundamental & clinical pharmacology**, Vol. 33, Issue 2, pp. 170-180, (2019) ([PubMed](#)).

Pei, Yao, Jiang, Qiu, Wang, Yang, Gao, Wang, Yang, Liu, Liu, Jia, Tao, Wei, Sun: "Inorganic arsenic induces pyroptosis and pancreatic β cells dysfunction through stimulating the IRE1 α /TNF- α pathway and protective effect of taurine." in: **Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association**, Vol. 125, pp. 392-402, (2019) ([PubMed](#)).

Liu, Wang, Ma, Wen: "Hydroxytyrosol Improves Obesity and Insulin Resistance by Modulating Gut Microbiota in High-Fat Diet-Induced Obese Mice." in: **Frontiers in microbiology**, Vol. 10, pp. 390, (2019) ([PubMed](#)).

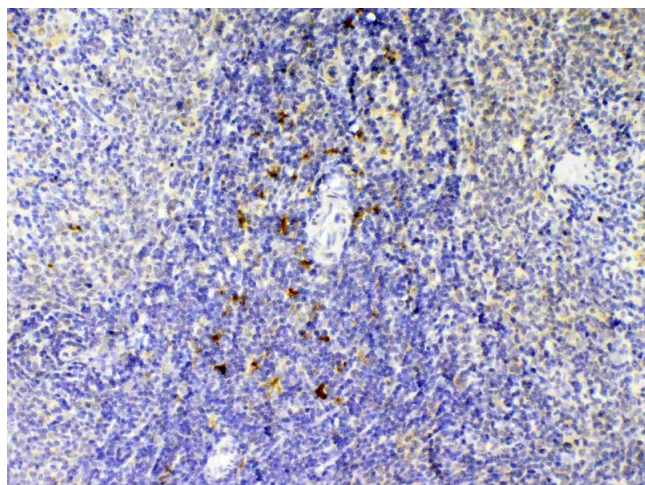
Chin, Ng, Ng: "Moringa oleifera standardised aqueous leaf extract-loaded hydrocolloid film dressing: in vivo dermal safety and wound healing evaluation in STZ/HFD diabetic rat model." in: **Drug delivery and translational research**, (2018) ([PubMed](#)).

Qasem, Noordin, Arya, Alsalahi, Jayash: "Evaluation of the glycemic effect of Ceratonia siliqua pods (Carob) on a streptozotocin-nicotinamide induced diabetic rat model." in: **PeerJ**, Vol. 6, pp. e4788, (2018) ([PubMed](#)).



Western Blotting

Image 1. Western blot analysis of IL12B using anti-IL12B 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 50ug of sample under reducing conditions. Lane 1: rat kidney tissue 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-IL12B antigen affinity purified polyclonal antibody (Catalog #) at 0.5 ug/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 IL12B at approximately 37-45KD. The expected band size for IL12B is at 37KD.



Immunohistochemistry

Image 2. IHC analysis of IL12B using anti-IL12B antibody. IL12B was detected in paraffin-embedded section of rat spleen tissue. 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 1ug/ml rabbit anti-IL12B 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.