Rabbit anti-Mouse IL3 Polyclonal Antibody | anti-Il3 antibody

Anti-IL3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125653	**Rabbit**	**Mouse**	**ELISA, Immunohistochemistry, Western Blot**

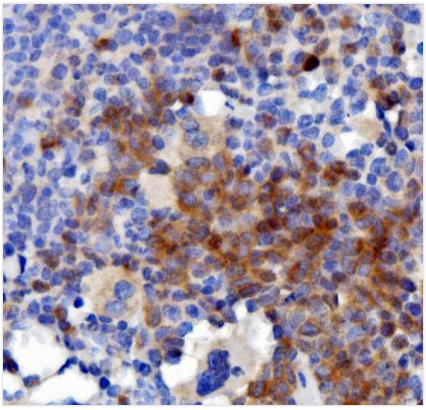
PRODUCT SYNONYMS

IL3; Polyclonal Antibody; Anti-IL3 Antibody; Il3; Csfmu; Il-3; Interleukin-3; IL-3; Hematopoietic growth factor; Mast cell growth factor; MCGF; Multipotential colony-stimulating factor; P-cell-stimulating factor; interleukin 3 (colony-stimulating factor; multiple); anti-Il3 antibody

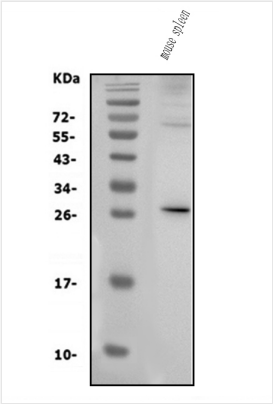
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for IL3 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.005mg NaN3.
Applicable Applications for anti-Il3 antibody	ELISA (Direct ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived mouse IL3 recombinant protein (Position: E91-C166).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohiostchemistry)
Figure 2. IHC analysis of IL3 using anti-IL3 antibody (AAA125653).IL3 was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-IL3 Antibody (AAA125653) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of IL3 using anti-IL3 antibody (AAA125653).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: mouse spleen 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-IL3 antigen affinity purified polyclonal antibody (Catalog # AAA125653) at 0. 5 μg/mL overnight at 4 degree 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 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for IL3 at approximately 26KD. The expected band size for IL3 is at 26KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Il3 antibody	Interleukin 3, also known as IL-3, is a protein that in humans is encoded by the IL3 gene. It is mapped to 5q31. 1. IL-3 is an interleukin, a type of biological signal (cytokine) that can improve the body's natural response to disease as part of the immune system. It acts by binding to the interleukin-3 receptor. IL-3 stimulates the differentiation of multipotent hematopoietic stem cells into myeloid progenitor cells or, with the addition of IL-7, into lymphoid progenitor cells. In addition, IL-3 stimulates proliferation of all cells in the myeloid lineage (granulocytes, monocytes, and dendritic cells), in conjunction with other cytokines, e. g.. Erythropoietin (EPO), Granulocyte macrophage colony-stimulating factor (GM-CSF), and IL-6. IL-3 is secreted by basophils and activated T cells to support growth and differentiation of T cells from the bone marrow in an immune response.
References	1. Yang YC, Ciarletta AB, Temple PA, Chung MP, Kovacic S, Witek-Giannotti JS, Leary AC, Kriz R, Donahue RE, Wong GG (October 1986). "Human IL-3 (multi-CSF): identification by expression cloning of a novel hematopoietic growth factor related to murine IL-3". Cell 47 (1): 3-10. 2. Webb, G. C., Lee, J. S., Campbell, H. D., Young, I. G. The genes for interleukins 3 and 5 map to the same locus on mouse chromosome 11. Cytogenet. Cell Genet. 50: 107-110, 1989.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31982791
NCBI GeneID	16187
NCBI Accession #	NP_034686.2
NCBI GenBank Nucleotide #	NM_010556.4
UniProt Accession #	P01586
Molecular Weight	18,540 Da
NCBI Official Full Name	interleukin-3
NCBI Official Synonym Full Names	interleukin 3
NCBI Official Symbol	Il3

NCBI Official Synonym Symbols	BPA; PSF; HCGF; Il-3; MCGF; Csfmu
NCBI Protein Information	interleukin-3
UniProt Protein Name	Interleukin-3
UniProt Gene Name	**Il3**
UniProt Synonym Gene Names	Csfmu; Il-3; IL-3; MCGF
UniProt Entry Name	IL3_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/polyclonal/il3-antibody-direct-elisa-immunohistochemistry-western-blot-elisa/125653