Interleukin 13 (IL-13) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Interleukin 13 (IL-13), Polyclonal Antibody
Full Product Name	Interleukin 13 (IL-13) (AP)
Product Gene Name	anti-IL-13 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with Alkaline Phosphatase.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human IL-13.
Preparation and Storage	Lyophilized powder may be stored at 4 degree C for short-term only. Reconstitute to nominal volume by adding sterile 40-50% glycerol. Aliquot and store at -20 degree C. Reconstituted product is stable for 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	15,816 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (131993865..131996801). Location: 5q31
OMIM	147683
3D Structure	ModBase 3D Structure for P35225
Immunogen	Recombinant human IL-13.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-IL-13 antibody	Antibodies; Interleukin
Applications Tested/Suitable for anti-IL-13 antibody	Neutralization, Western Blot (WB), ELISA (EIA)
Application Notes for anti-IL-13 antibody	Neutralization: 0.065-0.1ug/ml WB: 0.1-0.2ug/ml ELISA: 0.5ug/ml (direct ELISA) Applications are based on unconjugated antibody.
Related Product Information for anti-IL-13 antibody	MBS6483017 is an antibody targeting IL-13. Also known as Interleukin 13 (IL-13) (AP). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-IL-13 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-13. It may not necessarily be applicable to this product.

NCBI GI #	26787978
NCBI GeneID	3596
NCBI Accession #	NP_002179.2
UniProt Primary Accession #	P35225
UniProt Secondary Accession #	O43644; Q4VB52; Q9UDC7
UniProt Related Accession #	P35225
GenBank Nucleotide #	NM_002188.2
NCBI Official Full Name	interleukin-13
NCBI Official Synonym Full Names	interleukin 13
NCBI Official Symbol	IL13
NCBI Official Synonym Symbols	P600; IL-13
UniProt Protein Name	Interleukin-13
Protein Family	Interleukin-13 receptor
UniProt Gene Name	IL13
UniProt Synonym Gene Names	NC30; IL-13
UniProt Entry Name	IL13_HUMAN
NCBI Protein Information	interleukin-13
NCBI Summary for IL-13	This gene encodes an immunoregulatory cytokine produced primarily by activated Th2 cells. This cytokine is involved in several stages of B-cell maturation and differentiation. It up-regulates CD23 and MHC class II expression, and promotes IgE isotype switching of B cells. This cytokine down-regulates macrophage activity, thereby inhibits the production of pro-inflammatory cytokines and chemokines. This cytokine is found to be critical to the pathogenesis of allergen-induced asthma but operates through mechanisms independent of IgE and eosinophils. This gene, IL3, IL5, IL4, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL4. [provided by RefSeq, Jul 2008]
UniProt Comments for IL-13	IL13: Cytokine. Inhibits inflammatory cytokine production. Synergizes with IL2 in regulating interferon-gamma synthesis. May be critical in regulating inflammatory and immune responses. Defects in IL13 may be a cause of susceptibility to allergic rhinitis (ALRH). Allergic rhinitis is a common disease of complex inheritance and is characterized by mucosal inflammation caused by allergen exposure. Belongs to the IL-4/IL-13 family. Protein type: Motility/polarity/chemotaxis; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 5q31 Cellular Component: extracellular space; cytoplasm; extracellular region; external side of plasma membrane Molecular Function: protein binding; interleukin-13 receptor binding; cytokine activity Biological Process: response to nicotine; positive regulation of smooth muscle cell proliferation; microglial cell activation; regulation of proton transport; response to lipopolysaccharide; signal transduction; positive regulation of connective tissue growth factor production; positive regulation of tyrosine phosphorylation of Stat6 protein; positive regulation of immunoglobulin production; response to ethanol; cell-cell signaling; positive regulation of protein secretion; positive regulation of B cell proliferation; immune response; positive regulation of release of sequestered calcium ion into cytosol; negative regulation of NAD(P)H oxidase activity; inflammatory response; cell motility; positive regulation of macrophage activation Disease: Asthma, Susceptibility To; Allergic Rhinitis
Research Articles on IL-13	**1.** A meta-analysis indicates that IL-13 C-1112T and G+2044A polymorphisms could be proposed as asthma susceptible SNPs.

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