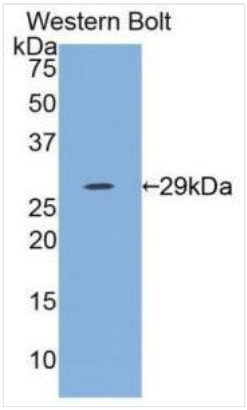
Interleukin 12a (IL12A) Antibody – Rabbit Polyclonal

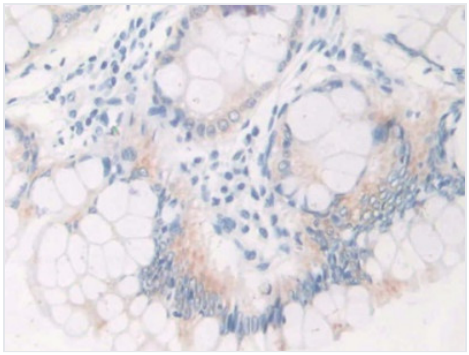
PRODUCT OVERVIEW

Product Name	Interleukin 12A (IL12A), Polyclonal Antibody
Full Product Name	Polyclonal Antibody to Interleukin 12A (IL12A)
Product Gene Name	anti-IL12A antibody
Clonality	Polyclonal
Host	Rabbit
Form/Format	Liquid; Supplied as solution form in 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Purity/Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Concentration	0.5mg/mL (lot specific)
Preparation and Storage	**Storage:** Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 24 months. **Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: IL12A (MBS2005484) Biotin Conjugated Antibody: IL12A (MBS2007195)
Matching Pairs	Unconjugated Antibody: IL12A (MBS2005484) Immunogen: IL12A (MBS2010514)
Matching Pairs	Unconjugated Antibody: IL12A (MBS2005484) FITC Conjugated Antibody: IL12A (MBS2017217)
Matching Pairs	Unconjugated Antibody: IL12A (MBS2005484) APC-CY7 Conjugated Antibody: IL12A (MBS2036361)
Matching Pairs	Unconjugated Antibody: IL12A (MBS2005484) PE Conjugated Antibody: IL12A (MBS2036364)
Matching Pairs	Unconjugated Antibody: IL12A (MBS2005484) APC Conjugated Antibody: IL12A (MBS2036367)
Matching Pairs	Unconjugated Antibody: IL12A (MBS2005484) Cy3 Conjugated Antibody: IL12A (MBS2036370)
Matching Pairs	Unconjugated Antibody: IL12A (MBS2005484) HRP Conjugated Antibody: IL12A (MBS2036376)
Matching Pairs	Unconjugated Antibody: Interleukin 12A (IL12A) (MBS2005484) APC-CY7 Conjugated Secondary Antibody: Immunoglobulin G (MBS2090675)
Matching Pairs	Unconjugated Antibody: Interleukin 12A (IL12A) (MBS2005484) Unconjugated Secondary Antibody: Immunoglobulin G (MBS2090678)
OMIM	M65291 mRNA
3D Structure	ModBase 3D Structure for P29459

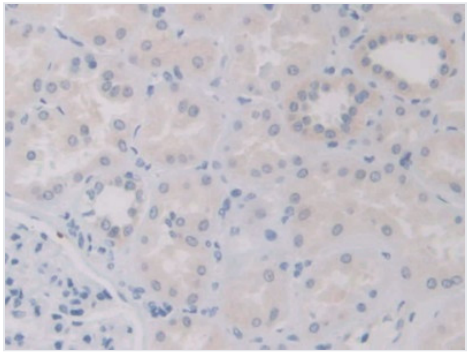
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Source	Polyclonal antibody preparation
Immunogen	Recombinant IL12A (Arg23~Ser219) expressed in E.coli
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-IL12A antibody	Immunohistochemistry (IHC)
Application Notes for anti-IL12A antibody	Immunohistochemistry: 5-30ug/mL Optimal working dilutions must be determined by end user.
Related Product Information for anti-IL12A antibody	MBS2005484 is an antibody targeting IL12A. Also known as Polyclonal Antibody to Interleukin 12A (IL12A). Host: Rabbit.
Other Notes	Small volumes of anti-IL12A 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.



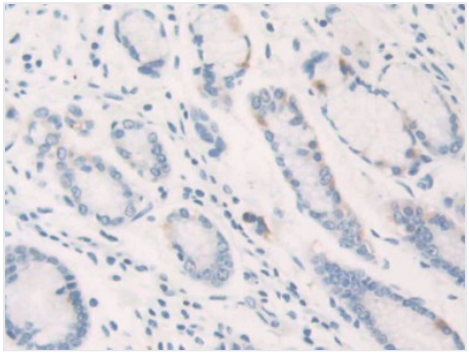
Western Blot (WB) of anti-IL12A antibody
Western Blot: Sample: Recombinant protein.



Immunohistochemistry (IHC) of anti-IL12A antibody
DAB staining on IHC-PSamples: Human Colorectal cancer TissuePrimary Ab: 30ug/ml Rabbit Anti-Human IL12A AntibodySecond Ab: 2ug/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody



Immunohistochemistry (IHC) of anti-IL12A antibody
DAB staining on IHC-PSamples: Human Kidney TissuePrimary Ab: 30ug/ml Rabbit Anti-Human IL12A AntibodySecond Ab: 2ug/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody



Immunohistochemistry (IHC) of anti-IL12A antibody
DAB staining on IHC-PSamples: Human Stomach Tissue Primary Ab: 30ug/ml Rabbit Anti-Human IL12A AntibodySecond Ab: 2ug/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL12A. It may not necessarily be applicable to this product.

NCBI GI #	24430219
NCBI GeneID	3592
NCBI Accession #	NP_000873.2

UniProt Primary Accession #	P29459
UniProt Secondary Accession #	Q96QZ1
UniProt Related Accession #	P29459
GenBank Nucleotide #	NM_000882.3
NCBI Official Full Name	interleukin-12 subunit alpha isoform 1
NCBI Official Synonym Full Names	interleukin 12A
NCBI Official Symbol	IL12A
NCBI Official Synonym Symbols	P35; CLMF; NFSK; NKSF1; IL-12A
UniProt Protein Name	Interleukin-12 subunit alpha
UniProt Synonym Protein Names	Cytotoxic lymphocyte maturation factor 35 kDa subunit; CLMF p35; IL-12 subunit p35; NK cell stimulatory factor chain 1; NKSF1
Protein Family	Interleukin
UniProt Gene Name	IL12A
UniProt Synonym Gene Names	NKSF1; IL-12A; CLMF p35; NKSF1
NCBI Protein Information	interleukin-12 subunit alpha
NCBI Summary for IL12A	This gene encodes a subunit of a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. This cytokine is required for the T-cell-independent induction of interferon (IFN)-gamma, and is important for the differentiation of both Th1 and Th2 cells. The responses of lymphocytes to this cytokine are mediated by the activator of transcription protein STAT4. Nitric oxide synthase 2A (NOS2A/NOS2) is found to be required for the signaling process of this cytokine in innate immunity. [provided by RefSeq, Jul 2008]
UniProt Comments for IL12A	IL12A: Cytokine that can act as a growth factor for activated T and NK cells, enhance the lytic activity of NK/lymphokine- activated Killer cells, and stimulate the production of IFN-gamma by resting PBMC. Belongs to the IL-6 superfamily. Protein type: Cytokine; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 3q25.33 Cellular Component: endoplasmic reticulum lumen; extracellular region; extracellular space; interleukin-12 complex Molecular Function: cytokine activity; growth factor activity; interleukin-12 beta subunit binding; interleukin-12 receptor binding; interleukin-27 binding; protein binding; protein heterodimerization activity Biological Process: cell cycle arrest; cell migration; defense response to Gram-positive bacterium; defense response to protozoan; immune response; negative regulation of interleukin-17 production; negative regulation of smooth muscle cell proliferation; positive regulation of cell adhesion; positive regulation of interferon-gamma production; positive regulation of lymphocyte proliferation; positive regulation of mononuclear cell proliferation; positive regulation of natural killer cell activation; positive regulation of natural killer cell mediated cytotoxicity; positive regulation of natural killer cell mediated cytotoxicity directed against tumor cell target; positive regulation of NK T cell activation; positive regulation of T cell differentiation; positive regulation of T cell mediated cytotoxicity; positive regulation of T cell proliferation; positive regulation of tyrosine phosphorylation of STAT protein; response to lipopolysaccharide; response to UV-B; response to virus
Research Articles on IL12A	**1.** circulating mir-21 and expression of the IL-12p35 gene were observed significantly downregulated in current smokers with CAD.

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