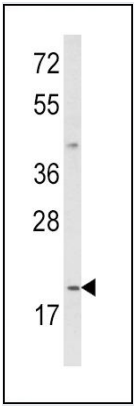
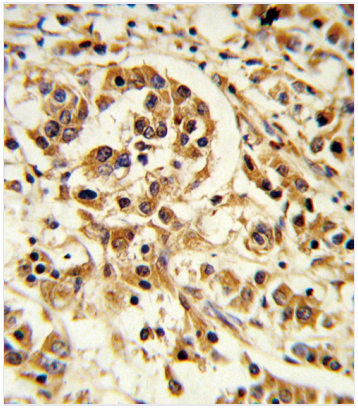
IL12A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

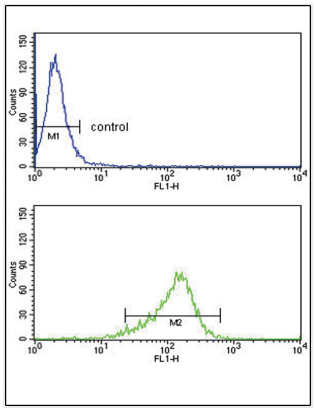
Product Name	IL12A, Polyclonal Antibody
Full Product Name	IL12A, CT (NK Cell Stimulatory Factor Chain 1, NKSF1, Cytotoxic Lymphocyte Maturation Factor 35kD Subunit, CLMF p35, IL-12 Subunit p35, Interleukin-12 Subunit alpha, IL-12A) (APC)
Product Gene Name	anti-IL12A antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human IL12A.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Do not freeze APC conjugates. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	24,874 Da
OMIM	161560
3D Structure	ModBase 3D Structure for P29459
Immunogen	Synthetic peptide selected from the C-terminal region of human IL12A (KLH).
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-IL12A antibody	Antibodies; Interleukin
Applications Tested/Suitable for anti-IL12A antibody	Western Blot (WB), FLISA
Application Notes for anti-IL12A antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-IL12A antibody	MBS6483007 is an antibody targeting IL12A. Also known as IL12A, CT (NK Cell Stimulatory Factor Chain 1, NKSF1, Cytotoxic Lymphocyte Maturation Factor 35kD Subunit, CLMF p35, IL-12 Subunit p35, Interleukin-12 Subunit alpha, IL-12A) (APC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-IL12A antibody	1. D'Andrea, A., et.al., J. Exp. Med. 176(5), 1387-1398 (1992).
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 analysis of IL12A Antibody (C-term) in MDA-MB231 cell line lysates (35ug/lane). IL12A (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-IL12A antibody
Formalin-fixed and paraffin-embedded human breast carcinoma reacted with IL12A Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-IL12A antibody
IL12A Antibody (C-term) flow cytometry analysis of MDA-MB231 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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
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
Protein Family	Interleukin
UniProt Gene Name	IL12A
UniProt Synonym Gene Names	NKSF1; IL-12A; CLMF p35; NKSF1
UniProt Entry Name	IL12A_HUMAN
NCBI Protein Information	interleukin-12 subunit alpha; CLMF p35; IL35 subunit; IL-12, subunit p35; interleukin 12, p35; interleukin-12 alpha chain; NF cell stimulatory factor chain 1; NK cell stimulatory factor chain 1; cytotoxic lymphocyte maturation factor 1, p35; cytotoxic lym
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: Secreted, signal peptide; Secreted; Cytokine Chromosomal Location of Human Ortholog: 3q25.33 Cellular Component: extracellular space; interleukin-12 complex; cytoplasm Molecular Function: protein binding; interleukin-27 binding; growth factor activity; interleukin-12 beta subunit binding; protein heterodimerization activity; cytokine activity; interleukin-12 receptor binding Biological Process: positive regulation of NK T cell activation; cell migration; positive regulation of cell adhesion; positive regulation of T cell mediated cytotoxicity; negative regulation of smooth muscle cell proliferation; positive regulation of natural killer cell mediated cytotoxicity directed against tumor cell target; response to virus; positive regulation of tyrosine phosphorylation of Stat4 protein; response to lipopolysaccharide; defense response to protozoan; positive regulation of natural killer cell mediated cytotoxicity; positive regulation of natural killer cell activation; response to UV-B; positive regulation of interferon-gamma production; defense response to Gram-positive bacterium; negative regulation of interleukin-17 production; positive regulation of T cell differentiation; positive regulation of mononuclear cell proliferation; positive regulation of lymphocyte proliferation; positive regulation of T cell proliferation; immune response; cell cycle arrest
Research Articles on IL12A	**1.** circulating IL-35 in PDAC patients significantly increased, suggesting that regulating the expression of IL-35 may provide a new possible target for the treatment of PDAC patients, especially for the resectable ones.
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