IFI30 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IFI30, Polyclonal Antibody
Full Product Name	IFI30 Polyclonal Conjugated Antibody
Product Gene Name	anti-IFI30 antibody
Product Synonym Names	IFI30 Conjugated Antibody; IFI30; GILT; IFI-30; IP-30; IP30; IFI30; lysosomal thiol reductase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Purity/Purification	Affinity purification
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	27,964 Da
OMIM	604664
3D Structure	ModBase 3D Structure for P13284
Immunogen	Recombinant fusion protein of human IFI30 (NP_006323.2).
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-IFI30 antibody	Most Applications
Application Notes for anti-IFI30 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-IFI30 antibody	The protein encoded by this gene is a lysosomal thiol reductase that at low pH can reduce protein disulfide bonds. The enzyme is expressed constitutively in antigen-presenting cells and induced by gamma-interferon in other cell types. This enzyme has an important role in MHC class II-restricted antigen processing.
Other Notes	Small volumes of anti-IFI30 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.
Searchable Terms for IFI30 purchase	MBS9439750 is an antibody targeting IFI30. Also known as IFI30 Polyclonal Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IFI30. It may not necessarily be applicable to this product.

NCBI GI #	29150261
NCBI GeneID	10437
NCBI Accession #	NP_006323.2
UniProt Primary Accession #	P13284
UniProt Secondary Accession #	Q76MF9; Q8NEI4; Q8WU77; Q9UL08
UniProt Related Accession #	P13284
GenBank Nucleotide #	NM_006332.4
NCBI Official Full Name	gamma-interferon-inducible lysosomal thiol reductase preproprotein
NCBI Official Synonym Full Names	interferon, gamma-inducible protein 30
NCBI Official Symbol	IFI30
NCBI Official Synonym Symbols	GILT; IP30; IP-30; IFI-30
UniProt Protein Name	Gamma-interferon-inducible lysosomal thiol reductase
UniProt Synonym Protein Names	Gamma-interferon-inducible protein IP-30; Legumaturain
Protein Family	Gamma-interferon-inducible lysosomal thiol reductase
UniProt Gene Name	IFI30
UniProt Synonym Gene Names	GILT; IP30
UniProt Entry Name	GILT_HUMAN
NCBI Protein Information	gamma-interferon-inducible lysosomal thiol reductase; gamma-interferon-inducible protein IP-30; interferon gamma-inducible protein 30 preproprotein; legumaturain
UniProt Comments for IFI30	IFI30: Lysosomal thiol reductase that can reduce protein disulfide bonds. May facilitate the complete unfolding of proteins destined for lysosomal degradation. Plays an important role in antigen processing. Facilitates the generation of MHC class II- restricted epitodes from disulfide bond-containing antigen by the endocytic reduction of disulfide bonds. Facilitates also MHC class I-restricted recognition of exogenous antigens containing disulfide bonds by CD8+ T-cells or crosspresentation. Belongs to the GILT family. Protein type: Secreted, signal peptide; EC 1.8.-.-; Secreted Chromosomal Location of Human Ortholog: 19p13.1 Cellular Component: lysosomal lumen; intracellular membrane-bound organelle; lysosome; cytoplasm; extracellular region; plasma membrane; cell junction Molecular Function: oxidoreductase activity, acting on sulfur group of donors Biological Process: protein stabilization; negative regulation of fibroblast proliferation; cytokine and chemokine mediated signaling pathway; antigen processing and presentation of exogenous peptide antigen via MHC class I; antigen processing and presentation of exogenous peptide antigen via MHC class II
Research Articles on IFI30	**1.** this review discusses recent studies that have advanced our understanding of the role of GILT in antigen processing and revealed surprising new functions for the enzyme.[review]
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