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IFI30 Antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI15095

Product Information

Application	WB
Primary Accession	P13284
Other Accession	NM_006332, NP_006323
Reactivity	Human, Mouse, Rat, Pig, Dog, Horse, Bovine, Sheep
Predicted	Human, Mouse, Rat, Pig, Dog, Horse, Bovine, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27964

Additional Information

Gene ID	10437
Alias Symbol	GILT, IFI-30, IP30, MGC32056
Other Names	Gamma-interferon-inducible lysosomal thiol reductase, 1.8.-.-, Gamma-interferon-inducible protein IP-30, Legumaturain, IFI30, GILT, IP30
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-IFI30 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	IFI30 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

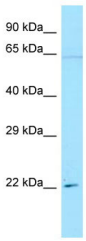
Name	IFI30 (HGNC:5398)
Function	Lysosomal thiol reductase that catalyzes protein disulfide bonds reduction (PubMed:10639150). Plays an important role in antigen processing and presentation, of namely both major histocompatibility complex (MHC) class I- and class II-restricted antigen by reducing the disulfide bonds of endocytosed proteins and facilitating their unfolding and optimal degradation (PubMed:10639150). Shares with thioredoxin a reduction mechanism in which the N-terminal cysteine thiol group in the CXXC active site motif initiates a nucleophilic attack on the substrate disulfide bond,resulting in the formation of a mixed disulfide-linked enzyme-substrate intermediate (Probable). Subsequent intramolecular attack by the second cysteine thiol group enables

	the release of the reduced substrate and oxidized enzyme (Probable). Lysosomal cysteine is a physiological reducing agent that is capable of reducing IFI30, so that it can catalyzes the next reaction (PubMed:10852914). Dithiothreitol, cysteine, and cysteinyl glycine, but not glutathione, are capable of regenerating active precursor and mature IFI30 in vitro (PubMed:10639150, PubMed:10852914).
Cellular Location	Secreted. Lysosome. Note=A small amount of the precursor can be secreted outside the cell as a dimer
Tissue Location	Expressed constitutively in antigen-presenting cells.

References

Luster A.D.,et al.J. Biol. Chem. 263:12036-12043(1988).
Arunachalam B.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:745-750(2000).
Arahira M.,et al.Submitted (OCT-2000) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Grimwood J.,et al.Nature 428:529-535(2004).

Images



WB Suggested Anti-IFI30 Antibody Titration: 1.0 µg/ml
Positive Control: Hela Whole CellIFI30 is supported by BioGPS gene expression data to be expressed in HeLa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.