Rabbit anti-Mouse, Rat GILT/IFI30 Polyclonal Antibody | anti-Ifi30 antibody

Anti-GILT/IFI30 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125756	**Rabbit**	**Mouse, Rat**	**ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

GILT/IFI30; Polyclonal Antibody; Anti-GILT/IFI30 Antibody; Ifi30; Gilt; Ip30; Gamma-interferon-inducible lysosomal thiol reductase; Gamma-interferon-inducible protein IP-30; Lysosomal thiol reductase IP30; interferon gamma inducible protein 30; anti-Ifi30 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for GILT/IFI30 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-Ifi30 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived mouse GILT/IFI30 recombinant protein (Position: A32-K248).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES

FCM/FACS (Flow Cytometry)
Figure 5. Flow Cytometry analysis of HEPA1-6 cells using anti-GILT/IFI30 antibody (AAA125756).Overlay histogram showing HEPA1-6 cells stained with AAA125756 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GILT/IFI30 Antibody (AAA125756, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

IHC (Immunohistochemistry)
Figure 4. IHC analysis of GILT/IFI30 using anti-GILT/IFI30 antibody (AAA125756).GILT/IFI30 was detected in paraffin-embedded section of rat liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-GILT/IFI30 Antibody (AAA125756) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohistochemisry)
Figure 3. IHC analysis of GILT/IFI30 using anti-GILT/IFI30 antibody (AAA125756).GILT/IFI30 was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-GILT/IFI30 Antibody (AAA125756) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohiostchemistry)
Figure 2. IHC analysis of GILT/IFI30 using anti-GILT/IFI30 antibody (AAA125756).GILT/IFI30 was detected in paraffin-embedded section of mouse liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-GILT/IFI30 Antibody (AAA125756) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

WB (Western Blot)
Figure 1. Western blot analysis of GILT/IFI30 using anti-GILT/IFI30 antibody (AAA125756).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: mouse spleen tissue lysatesLane 2: mouse thymus tissue lysatesLane 3: mouse Raw164. 7 whole cell lysatesLane 4: mouse ANA-1 whole cell lysatesLane 5: rat spleen tissue lysatesLane 6: rat thymus tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-GILT/IFI30 antigen affinity purified polyclonal antibody (Catalog # AAA125756) at 0. 25 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for GILT/IFI30 at approximately 25KD. The expected band size for GILT/IFI30 is at 25KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Ifi30 antibody	Gamma-interferon-inducible lysosomal thiol reductase is an enzyme that, in humans, is encoded by the IFI30 gene. 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.
References	1. Arunachalam, B., Phan, U. T., Geuze, H. J., Cresswell, P. Enzymatic reduction of disulfide bonds in lysosomes: characterization of a gamma-interferon-inducible lysosomal thiol reductase (GILT). Proc. Nat. Acad. Sci. 97: 745-750, 2000. 2. Maric, M., Arunachalam, B., Phan, U. T., Dong, C., Garrett, W. S., Cannon, K. S., Alfonso, C., Karlsson, L., Flavell, R. A., Cressell, P. Defective antigen processing in GILT-free mice. Science 294: 1361-1365, 2001. 3. Phan, U. T., Arunachalam, B., Cresswell, P. Gamma-interferon-inducible lysosomal thiol reductase (GILT): maturation, activity, and mechanism of action. J. Biol. Chem. 275: 25907-25914, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	125628657
NCBI GeneID	65972
NCBI Accession #	NP_075552.2
NCBI GenBank Nucleotide #	NM_023065.3
UniProt Accession #	Q9ESY9; Q3U0F9; Q9EP56; G3X911
Molecular Weight	27,784 Da
NCBI Official Full Name	gamma-interferon-inducible lysosomal thiol reductase
NCBI Official Synonym Full Names	interferon gamma inducible protein 30

NCBI Official Symbol	Ifi30
NCBI Official Synonym Symbols	GILT; IP30
NCBI Protein Information	gamma-interferon-inducible lysosomal thiol reductase; lysosomal thio reductase IP30; lysosomal thiol reductase IP30; gamma-interferon-inducible protein IP-30
UniProt Protein Name	Gamma-interferon-inducible lysosomal thiol reductase
UniProt Gene Name	**Ifi30**
UniProt Synonym Gene Names	Gilt; Ip30
UniProt Entry Name	GILT_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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