

## Anti-GILT/IFI30 Antibody Picoband®

Catalog Number: A05754-3

### About Ifi30

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.

### Overview

Product Name	Anti-GILT/IFI30 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-GILT/IFI30 Antibody Picoband® catalog # A05754-3. Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.01mg NaN <sub>3</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9ESY9

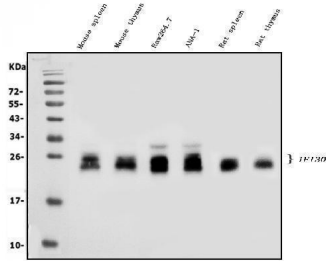
### Technical Details

Immunogen	E.coli-derived mouse GILT/IFI30 recombinant protein (Position: A32-K248).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

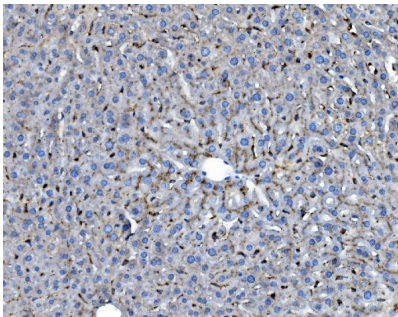
Suggested Dilutions

Western blot, 0.1-0.25ug/ml, Mouse, Rat  
Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Mouse, Rat  
Flow Cytometry (Fixed), 1-3ug/1x10<sup>6</sup> cells, Mouse  
ELISA, 0.1-0.5ug/ml, -

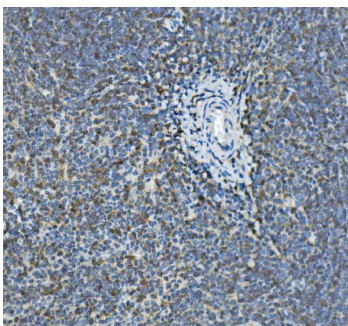
## Anti-GILT/IFI30 Antibody Picoband® (A05754-3) Images



Western blot analysis of GILT/IFI30 using anti-GILT/IFI30 antibody (A05754-3). 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 lysates, Lane 2: mouse thymus tissue lysates, Lane 3: mouse Raw164.7 whole cell lysates, Lane 4: mouse ANA-1 whole cell lysates, Lane 5: rat spleen tissue lysates, Lane 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 # A05754-3) at 0.25 ug/mL overnight at 4°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 (Catalog # EK1002) 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.

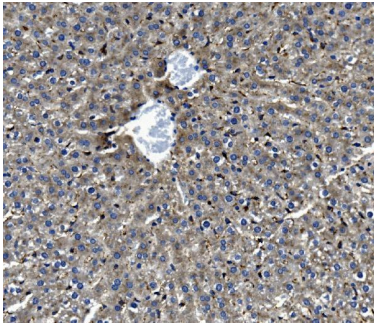


IHC analysis of GILT/IFI30 using anti-GILT/IFI30 antibody (A05754-3). GILT/IFI30 was detected in paraffin-embedded section of mouse liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-GILT/IFI30 Antibody (A05754-3) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

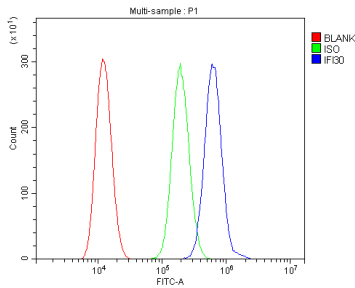


IHC analysis of GILT/IFI30 using anti-GILT/IFI30 antibody (A05754-3). GILT/IFI30 was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-GILT/IFI30 Antibody (A05754-3) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

IHC analysis of GILT/IFI30 using anti-GILT/IFI30 antibody (A05754-3). 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 2ug/ml rabbit anti-GILT/IFI30 Antibody (A05754-3) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



Flow Cytometry analysis of HEPA1-6 cells using anti-GILT/IFI30 antibody (A05754-3). Overlay histogram showing HEPA1-6 cells stained with A05754-3 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GILT/IFI30 Antibody (A05754-3, 1ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

## Submit a product review to [Biocompare.com](https://www.biocompare.com)

Submit a review of this product to [Biocompare.com](https://www.biocompare.com) to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



### Anti-GILT/IFI30 Antibody

For Research Use Only. Not for use in diagnostic procedures.