

## Anti-IL37 Antibody

Catalog Number: A03607-3

### About IL37

Interleukin 37 (IL-37), also known as IL-1 family member 7 (IL-1F7), is an anti-inflammatory cytokine. Interleukines are cytokines that make an important part of immune signaling. It belongs to the interleukin-1 family. This protein is in humans encoded by the IL37 gene located on the chromosome 2. The mechanism of IL-37 functions is still to be elucidated. IL-37 possesses not only anti-inflammatory effects but it is also important in antimicrobial response or antitumor immunity. The IL-37 acts intracellularly and extracellularly.

### Overview

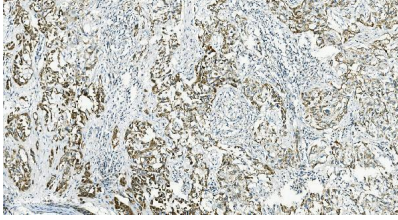
Product Name	Anti-IL37 Antibody
Reactive Species	Human
Description	Boster Bio Anti-IL37 Antibody catalog # A03607-3. Tested in ELISA, Flow Cytometry, IF, IHC, ICC applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, IF, IHC, ICC
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na <sub>2</sub> HPO <sub>4</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	Q9NZH6

### Technical Details

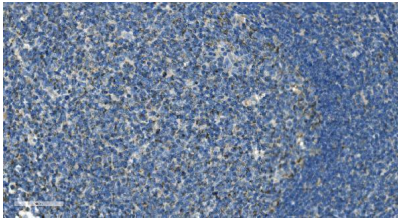
Immunogen	E.coli-derived human IL37 recombinant protein (Position: V46-D218).
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human

Immunocytochemistry/Immunofluorescence, 5ug/ml, Human  
Flow Cytometry (Fixed), 1-3ug/1x10<sup>6</sup> cells, Human  
ELISA, 0.1-0.5ug/ml, -

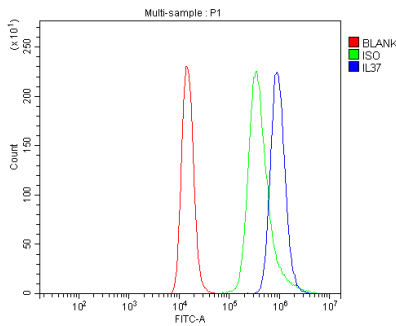
## Anti-IL37 Antibody (A03607-3) Images



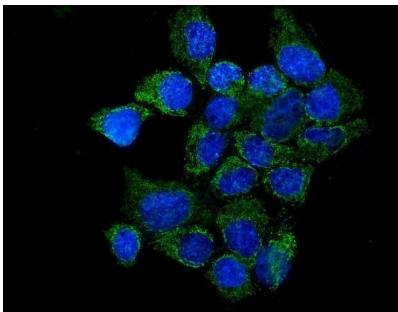
IHC analysis of IL37 using anti-IL37 antibody (A03607-3). IL37 was detected in paraffin-embedded section of human B lymphocytic tumor tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-IL37 Antibody (A03607-3) 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 IL37 using anti-IL37 antibody (A03607-3). IL37 was detected in paraffin-embedded section of human tonsil 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-IL37 Antibody (A03607-3) 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.



Flow Cytometry analysis of Raji cells using anti-IL37 antibody (A03607-3). Overlay histogram showing Raji cells stained with A03607-3 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-IL37 Antibody (A03607-3, 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.



IF analysis of IL37 using anti-IL37 antibody (A03607-3). IL37 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-IL37 Antibody (A03607-3) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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### Anti-IL37 Antibody

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