

## Rabbit anti-Human GIMAP1 Polyclonal Antibody | anti-GIMAP1 antibody

Anti-GIMAP1 Antibody Picoband

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                          |
|-----------|--------|------------|-------------------------------------------------------|
| AAA127697 | Rabbit | Human      | ELISA, Flow Cytometry, Functional Assay, Western Blot |

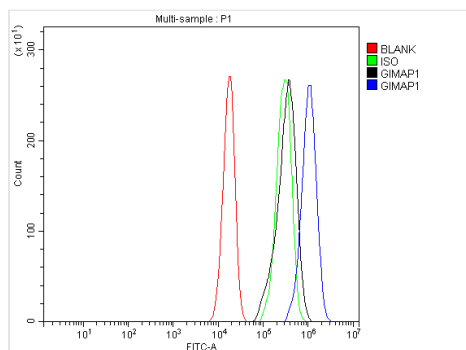
### PRODUCT SYNONYMS

GIMAP1; Polyclonal Antibody; Anti-GIMAP1 Antibody Picoband; anti-GIMAP1 antibody

### PRODUCT SPECIFICATIONS

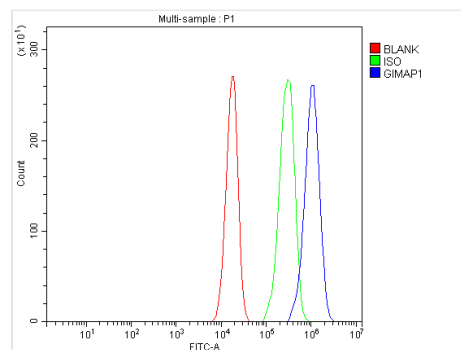
|                                                  |                                                                                                                                                                                                                       |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                |
| Reactivity                                       | Human                                                                                                                                                                                                                 |
| Clonality                                        | Polyclonal                                                                                                                                                                                                            |
| Purity/Purification                              | Immunogen affinity purified.                                                                                                                                                                                          |
| Form/Format                                      | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                |
| Applicable Applications for anti-GIMAP1 antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                   |
| Immunogen                                        | E coli-derived human GIMAP1 recombinant protein (Position: M1-E238). Human GIMAP1 shares 70.5% amino acid (aa) sequence identity with mouse GIMAP1.                                                                   |
| Reconstitution                                   | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                              |
| Preparation and Storage                          | At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing. |

### IMAGES



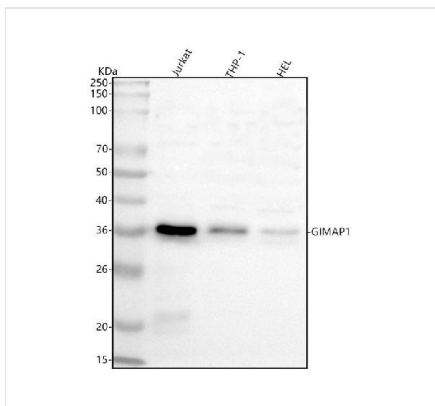
#### FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of JK cells using anti-GIMAP1 antibody (AAA127697). Overlay histogram showing JK cells stained with AAA127697 (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-GIMAP1 Antibody (AAA127697, 1ug/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree 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. U2OS sample (Black line) was used as a negative control.



#### FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of JK cells using anti-GIMAP1 antibody (AAA127697). Overlay histogram showing JK cells stained with AAA127697 (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-GIMAP1 Antibody (AAA127697, 1ug/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



#### WB (Western Blot)

Figure 1. Western blot analysis of GIMAP1 using anti-GIMAP1 antibody (AAA127697). 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 30 ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates, Lane 2: human THP-1 whole cell lysates, Lane 3: human HEL whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-GIMAP1 antigen affinity purified polyclonal antibody (#AAA127697) at 0.5ug/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 GIMAP1 at approximately 36 kDa. The expected band size for GIMAP1 is at 34 kDa.

#### ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-GIMAP1 antibody</b> | 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. |
| <b>Product Categories/Family for anti-GIMAP1 antibody</b>   | <a href="#">Primary Antibodies</a>                                                                                                                                                                                                                                                |
| <b>References</b>                                           | 1. Stamm, O., Krucken, J., Schmitt-Wrede, H.-P., Benten, W. P. M., Wunderlich, F. Human ortholog to mouse imap38 encoding an ER-localizable G-protein belongs to a gene family clustered on chromosome 7q32-q36. Gene 282: 159-167, 2002.                                         |

#### NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                            |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">18594498</a>                                                                                   |
| <b>NCBI GeneID</b>                      | <a href="#">170575</a>                                                                                     |
| <b>NCBI Accession #</b>                 | <a href="#">NP_570115.1</a>                                                                                |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_130759.3</a>                                                                                |
| <b>UniProt Accession #</b>              | <a href="#">Q8WWP7</a> ; <a href="#">Q8NAZ0</a> ; <a href="#">B2RCI3</a>                                   |
| <b>Molecular Weight</b>                 | 34,369 Da                                                                                                  |
| <b>NCBI Official Full Name</b>          | GTPase IMAP family member 1                                                                                |
| <b>NCBI Official Synonym Full Names</b> | GTPase, IMAP family member 1                                                                               |
| <b>NCBI Official Symbol</b>             | GIMAP1                                                                                                     |
| <b>NCBI Official Synonym Symbols</b>    | IAN2; IMAP1; HIMAP1; IMAP38                                                                                |
| <b>NCBI Protein Information</b>         | GTPase IMAP family member 1; immunity associated protein 1; immune-associated nucleotide-binding protein 2 |
| <b>UniProt Protein Name</b>             | GTPase IMAP family member 1                                                                                |

|                            |               |
|----------------------------|---------------|
| UniProt Gene Name          | GIMAP1        |
| UniProt Synonym Gene Names | IMAP1; hIMAP1 |
| UniProt Entry Name         | GIMA1_HUMAN   |

**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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Online datasheet: <https://www.aaabiotech.com/polyclonal/gimap1-antibody-flow-cytometry-western-blot-elisa/127697>