

## Rabbit anti-Human RAVER1 Polyclonal Antibody | anti-RAVER1 antibody

Anti-RAVER1 Antibody Picoband

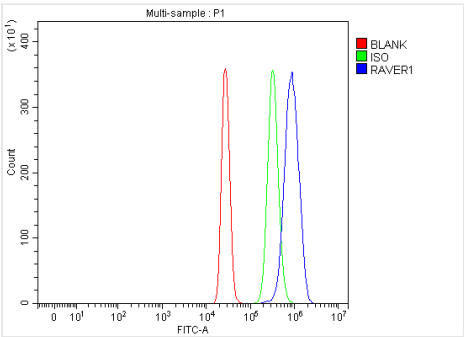
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                          |
|-----------|--------|------------|-------------------------------------------------------|
| AAA127581 | Rabbit | Human      | ELISA, Flow Cytometry, Functional Assay, Western Blot |

### PRODUCT SYNONYMS

RAVER1; Polyclonal Antibody; Anti-RAVER1 Antibody Picoband; CD72 molecule; B-cell differentiation antigen CD72; Lyb-2; CD72; anti-RAVER1 antibody

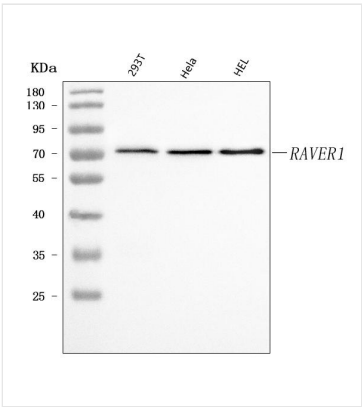
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                       |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                |
| Reactivity                                       | Human                                                                                                                                                                                                                 |
| Clonality                                        | Polyclonal                                                                                                                                                                                                            |
| Isotype                                          | Rabbit IgG                                                                                                                                                                                                            |
| Specificity                                      | Pre-B-cells and B-cells but not terminally differentiated plasma cells.                                                                                                                                               |
| 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-RAVER1 antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                   |
| Immunogen                                        | E coli-derived human RAVER1 recombinant protein (Position: D209-H567).                                                                                                                                                |
| Subcellular Localization                         | Membrane, Single-pass type II membrane protein                                                                                                                                                                        |
| Reconstitution                                   | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                              |
| Cross Reactivity                                 | No cross-reactivity with other proteins.                                                                                                                                                                              |
| Protein Function                                 | Plays a role in B-cell proliferation and differentiation.                                                                                                                                                             |
| 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. |



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HepG2 cells using anti-RAVER1 antibody (AAA127581).Overlay histogram showing HepG2 cells stained with AAA127581 (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-RAVER1 Antibody (AAA127581, 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.



WB (Western Blot)

Figure 1. Western blot analysis of RAV1 using anti-RAVER1 antibody (AAA127581).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 293T whole cell lysates,Lane 2: human HeLa 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-RAVER1 antigen affinity purified polyclonal antibody (#AAA127581) 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 RAV1 at approximately 72 kDa. The expected band size for RAV1 is at 64 kDa.

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-RAVER1 antibody | 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.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product Categories/Family for anti-RAVER1 antibody   | Primary Antibodies; Adaptive Immunity; B Cells; Hematopoietic Progenitors; Immunology; Lymphoid; Stem Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| References                                           | 1. Gromak, N., Rideau, A., Southby, J., Scadden, A. D. J., Gooding, C., Huttelmaier, S., Singer, R. H., Smith, C. W. J. The PTB interacting protein raver1 regulates alpha-tropomyosin alternative splicing. EMBO J. 22: 6356-6364, 2003. 2. Huttelmaier, S., Illenberger, S., Grosheva, I., Rudiger, M., Singer, R. H., Jockusch, B. M. Raver1, a dual compartment protein, is a ligand for PTB/hnRNP1 and microfilament attachment proteins. J. Cell Biol. 155: 775-785, 2001. 3. Nagase, T., Kikuno, R., Ohara, O. Prediction of the coding sequences of unidentified human genes. XXII. The complete sequences of 50 new cDNA clones which code for large proteins. DNA Res. 8: 319-327, 2001. |

NCBI AND UNIPROT INFORMATION

|                                  |                                  |
|----------------------------------|----------------------------------|
| NCBI GI #                        | 123173757                        |
| NCBI GeneID                      | 125950                           |
| NCBI Accession #                 | NP_597709.2                      |
| NCBI GenBank Nucleotide #        | NM_133452.2                      |
| UniProt Accession #              | Q8IY67; Q8IY60; Q8TF24; A6NMU4   |
| Molecular Weight                 | 63,877 Da                        |
| NCBI Official Full Name          | ribonucleoprotein PTB-binding 1  |
| NCBI Official Synonym Full Names | ribonucleoprotein, PTB-binding 1 |
| NCBI Official Symbol             | RAVER1                           |

|                            |                                                  |
|----------------------------|--------------------------------------------------|
| NCBI Protein Information   | ribonucleoprotein PTB-binding 1; protein raver-1 |
| UniProt Protein Name       | Ribonucleoprotein PTB-binding 1                  |
| UniProt Gene Name          | <b>RAVER1</b>                                    |
| UniProt Synonym Gene Names | KIAA1978                                         |
| UniProt Entry Name         | RAVR1_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/raver1-antibody-flow-cytometry-western-blot-elisa/127581>