

Rabbit BLVRB Polyclonal Antibody | anti-BLVRB antibody

Anti-BLVRB Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127498	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

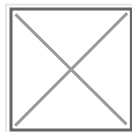
PRODUCT SYNONYMS

BLVRB; Polyclonal Antibody; Anti-BLVRB Antibody Picoband; Chromaffin granule amine transporter; BMP and activin membrane bound inhibitor; BMP and activin membrane-bound inhibitor homolog; Non-metastatic gene A protein; Putative transmembrane protein; NMA; BAMBI; anti-BLVRB antibody

PRODUCT SPECIFICATIONS

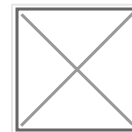
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in adult liver.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-BLVRB antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human BLVRB recombinant protein (Position: K4-D180).
Subcellular Localization	Cytoplasm, Nucleus, Translocates to nuclear foci during heat shock
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	Negatively regulates TGF-beta signaling.
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 MCF-7 cells using anti-BLVRB antibody (AAA127498). Overlay histogram showing MCF-7 cells stained with AAA127498 (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-BLVRB Antibody (AAA127498, 1ug/1x10⁶ 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/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of BLVRB using anti-BLVRB antibody (AAA127498). BLVRB was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-BLVRB Antibody (AAA127498) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of BLVRB using anti-BLVRB antibody (AAA127498). 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 K562 whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: rat liver tissue lysates, Lane 5: rat RH35 whole cell lysates, Lane 6: mouse HEPA1-6 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-BLVRB antigen affinity purified polyclonal antibody (#AAA127498) 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 BLVRB at approximately 22 kDa. The expected band size for BLVRB is at 22-27 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-BLVRB 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-BLVRB antibody	Primary Antibodies; Atherosclerosis; Cardiovascular; Chaperones; Heat Shock Proteins; Protein Trafficking; Signal Transduction
References	1. Chikuba, K., Yubisui, T., Shirabe, K., Takeshita, M. Cloning and nucleotide sequence of a cDNA of the human erythrocyte NADPH-flavin reductase. Biochem. Biophys. Res. Commun. 198: 1170-1176, 1994.2. Fisher, R. A., Edwards, Y. H., Putt, W., Potter, J. An interpretation of human diaphorase isozymes in terms of three gene loci DIA-1, 3. Komuro, A., Tobe, T., Hashimoto, K., Nakano, Y., Yamaguchi, T., Nakajima, H., Tomita, M. Molecular cloning and expression of human liver biliverdin-IX-beta reductase. Biol. Pharm. Bull. 19: 796-804, 1994.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1706870
NCBI GeneID	645
UniProt Accession #	P30043; P32078; P53005; Q32LZ2; A6NKD8; B2R5C6
Molecular Weight	206
NCBI Official Full Name	Flavin reductase (NADPH)
NCBI Official Synonym Full Names	biliverdin reductase B
NCBI Official Symbol	BLVRB
NCBI Official Synonym Symbols	FLR; BVRB; SDR43U1; HEL-S-10
NCBI Protein Information	flavin reductase (NADPH); flavin reductase (NADPH); FR; GHBP; BVR-B; NADPH-flavin reductase; NADPH-dependent diaphorase; green heme-binding protein; biliverdin-IX beta-reductase; epididymis secretory protein Li 10; biliverdin reductase B (flavin reductase
UniProt Protein Name	Flavin reductase (NADPH)
UniProt Gene Name	BLVRB
UniProt Synonym Gene Names	FLR; FR; BVR-B; GHBP; FLR
UniProt Entry Name	BLVRB_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://stage.aaabiotech.com/polyclonal/blvrb-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127498>