

Rabbit anti-Human BLVRB Polyclonal Antibody | anti-BLVRB antibody

Anti-BLVRB Antibody, Rabbit Polyclonal

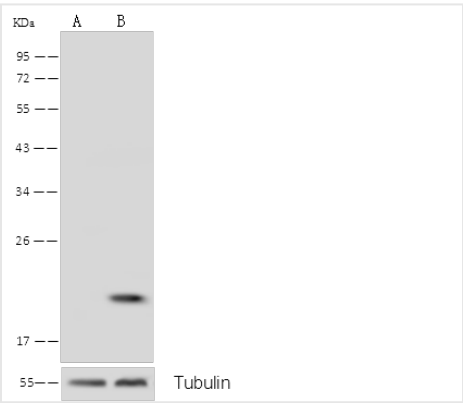
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255645	Rabbit	Human	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

BLVRB; Polyclonal Antibody; Anti-BLVRB Antibody; Rabbit Polyclonal; BLVRB/biliverdin reductase B Antibody; Rabbit PAb; Antigen Affinity Purified; biliverdin reductase B; Anti-BVRB Antibody; Anti-FLR Antibody; Anti-HEL-S-10 Antibody; Anti-SDR43U1 Antibody; anti-BLVRB antibody

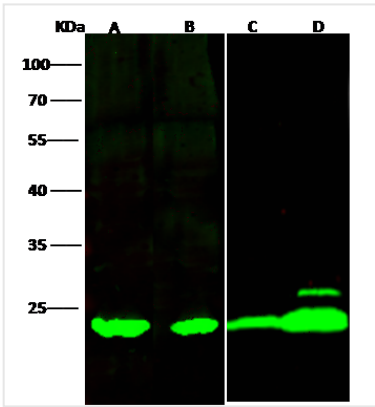
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human BLVRB/biliverdin reductase B
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-BLVRB antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human BLVRB/biliverdin reductase B protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human BLVRB/biliverdin reductase B (rh BLVRB/biliverdin reductase B). BLVRB/biliverdin reductase B specific IgG was purified by Human BLVRB/biliverdin reductase B affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



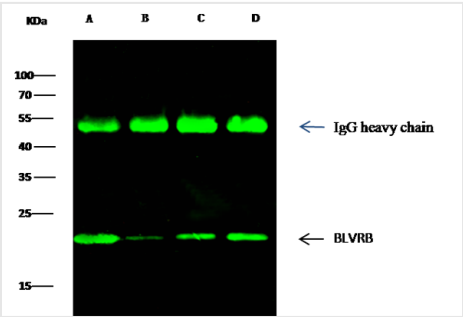
WB (Western Blot)

Anti-BLVRB rabbit polyclonal antibody at 1:500 dilutionLane A: BLVRB knock-out HeLa Whole Cell LysateLane B: HeLa Whole Cell LysateLysates/proteins at 10 ug per lane.SecondaryGoat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.Developed using the ECL technique.Performed under reducing conditions.Predicted band size:22 kDaObserved band size:22 kDa



WB (Western Blot)

Anti-BLVRB rabbit polyclonal antibody at 1:500 dilutionLane A: Caco-2 Whole Cell LysateLane B: HeLa Whole Cell LysateLane C: HepG2 Whole Cell LysateLane D: K562 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:22 kDaObserved band size:22 kDa



IP (Immunoprecipitation)

BLVRB was immunoprecipitated using:Lane A:0.5 mg K562 Whole Cell LysateLane B:0.5 mg HeLa Whole Cell LysateLane C:0.5 mg HepG2 Whole Cell LysateLane D:0.5 mg Caco-2 Whole Cell Lysate2 uL anti-BLVRB rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-BLVRB rabbit polyclonal antibody,at 1:100 dilutionSecondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilutionDeveloped using the odssey technique.Performed under reducing conditions.Predicted band size: 22 kDaObserved band size: 22 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-BLVRB antibody	Biliverdin reductase (hBVR) is a serine/threonine kinase that catalyzes reduction of the heme oxygenase (HO) activity product, biliverdin, to bilirubin. BVR consists of an N-terminal dinucleotide-binding domain (Rossmann-fold) and a C-terminal domain that contains a six-stranded beta-sheet that is flanked on one face by several alpha-helices. The C-terminal and N-terminal domains interact extensively, forming the active site cleft at their interface. Biliverdin reductase (BVR) catalyzes the last step in heme degradation by reducing the gamma-methene bridge of the open tetrapyrrole, biliverdin IXalpha, to bilirubin with the concomitant oxidation of a beta-nicotinamide adenine dinucleotide (NADH) or beta-nicotinamide adenine dinucleotide phosphate (NADPH) cofactor. It is now recognized that human BVR (hBVR) is a dual-specificity kinase (Ser/Thr and Tyr) upstream activator of the insulin/insulin growth factor-1 (IGF-1) and mitogen-activated protein kinase (MAPK) signaling pathways. Human BVR (hBVR) is essential for MAPK-extracellular signal-regulated kinase (ERK)1/2 (MEK)-eukaryotic-like protein kinase (Elk) signaling and has been identified as the cytoplasm-nuclear heme transporter of ERK1/2 and hemein, the key components of stress-responsive gene expression.
References	Kapitulnik J, et al. (2009) Pleiotropic functions of biliverdin reductase: cellular signaling and generation of cytoprotective and cytotoxic bilirubin. Trends in Pharmacological Sciences. 30(3): 129-37.Ahmad Z, et al. (2002) Human Biliverdin Reductase Is a Leucine Zipper-like DNA-binding Protein and Functions in Transcriptional Activation of Heme Oxygenase-1 by Oxidative Stress. The Journal of Biological Chemistry. 277: 9226-32.Whitby FG, et al. (2002) Crystal Structure of a Biliverdin IX Reductase Enzyme-Cofactor Complex. Journal of Molecular Biology. 319(5): 1199-210.

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/blvr-b-antibody-immunoprecipitation-western-blot-elisa/255645>