

Rabbit BVES Polyclonal Antibody | anti-BVES antibody

BVES Antibody

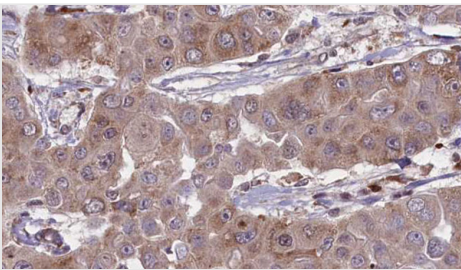
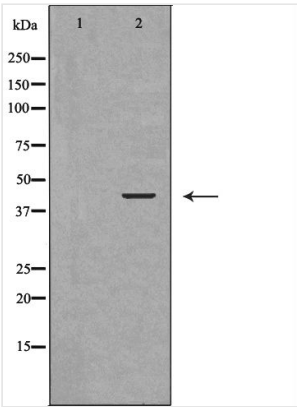
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325829	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

BVES; Polyclonal Antibody; BVES Antibody; Blood vessel epicardial substance; Bves; hBVES; MGC42413; POP 1; POP1; POPD1_HUMAN; POPDC 1; POPDC1; Popeye domain containing 1; Popeye domain containing protein 1; Popeye domain-containing protein 1; Popeye protein 1; anti-BVES antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	BVES antibody detects endogenous levels of total BVES
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	360
Applicable Applications for anti-BVES antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human BVES
Subcellular Location	Lateral Cell Membrane. Cell Junction > Tight Junction. Membrane. Colocalizes with VAMP3 at the cell-cell contact in cardiac and skeletal muscle (By similarity). Its movement from the cytoplasm to membrane is an early event occurring concurrently with cell-cell contact. Colocalizes in epithelial cells with OCLN and TJP1 in an apical-lateral position within the z axis. Detected at cell-cell contact but never observed at the free surface of epithelial cells.
Tissue Specificity	Expressed in epithelial cells (at protein level). Expressed in fetal and adult heart and skeletal muscle.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA325829 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of Mouse brain lysate, using BVES Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-BVES antibody

Description: This gene encodes a member of the POP family of proteins containing three putative transmembrane domains. This gene is expressed in cardiac and skeletal muscle and may play an important role in development of these tissues. The mouse ortholog may be involved in the regeneration of adult skeletal muscle and may act as a cell adhesion molecule in coronary vasculogenesis. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Dec 2010]

Function: Cell adhesion molecule involved in the establishment and/or maintenance of cell integrity. Involved in the formation and regulation of the tight junction (TJ) paracellular permeability barrier in epithelial cells (PubMed:16188940). Plays a role in VAMP3-mediated vesicular transport and recycling of different receptor molecules through its interaction with VAMP3. Plays a role in the regulation of cell shape and movement by modulating the Rho-family GTPase activity through its interaction with ARHGEF25/GEFT. Induces primordial adhesive contact and aggregation of epithelial cells in a Ca2+-independent manner. Also involved in striated muscle regeneration and repair and in the regulation of cell spreading (By similarity). Important for the maintenance of cardiac function. Plays a regulatory function in heart rate dynamics mediated, at least in part, through cAMP-binding and, probably, by increasing cell surface expression of the potassium channel KCNK2 and enhancing current density (PubMed:26642364). Is also a caveolae-associated protein important for the preservation of caveolae structural and functional integrity as well as for heart protection against ischemia injury.

Subunit Structure: Homodimer. Homodimerization requires the C-terminus cytoplasmic region. Interacts (via the C-terminus cytoplasmic tail) with TJP1. Interacts (via the C-terminus cytoplasmic tail) with ARHGEF25/GEFT (via the DH domain). Interacts (via the C-terminus cytoplasmic tail) with VAMP3 (By similarity). Interacts with KCNK2; the interaction enhances KCNK2 surface expression and is inhibited by cAMP (By similarity) (PubMed:26642364). Interacts with CAV3 (By similarity).

Similarity: Belongs to the popeye family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	313760596
NCBI GeneID	11149
NCBI Accession #	NP_001186492.1
NCBI GenBank Nucleotide #	NM_001199563.1
UniProt Accession #	Q8NE79; Q5T550; Q5T551; Q8IWC6; Q9HBV0; Q9UNG6; A8K1R4; E1P5D8
Molecular Weight	Observed: 41 kDa Predicted: 42 kDa
NCBI Official Full Name	blood vessel epicardial substance
NCBI Official Synonym Full Names	blood vessel epicardial substance

NCBI Official Symbol	BVES
NCBI Official Synonym Symbols	POP1; HBVES; CARICK; LGMD2X; POPDC1
NCBI Protein Information	blood vessel epicardial substance
UniProt Protein Name	Blood vessel epicardial substance
UniProt Gene Name	BVES
UniProt Synonym Gene Names	POP1ImportedManual assertion inferred from database entriesiHGNC:1152; POPDC1ImportedManual assertion inferred from database entriesiHGNC:1152; hBVES; Popeye protein 1

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/bves-antibody-immunohistochemistry-western-blot-elisa/325829>