

**BVES Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13010b****Specification**

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**BVES Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q8NE79](#)**BVES Antibody (C-term) Blocking peptide - Additional Information**

Gene ID 11149

**Other Names**

Blood vessel epicardial substance, hBVES, Popeye domain-containing protein 1, Popeye protein 1, BVES, POP1, POPDC1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**BVES Antibody (C-term) Blocking peptide - Protein Information**Name BVES ([HGNC:1152](#))**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:<a href="http://www.uniprot.org/citations/16188940" target="\_blank">16188940</a>). 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 Ca(2+)-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:<a href="http://www.uniprot.org/citations/26642364" target="\_blank">26642364</a>). 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.

**Cellular Location**

Lateral cell membrane. Cell junction, tight junction. Membrane; Multi-pass membrane protein. Cell membrane, sarcolemma. Membrane, caveola {ECO:0000250|UniProtKB:Q9ES83}.  
Note=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. {ECO:0000250|UniProtKB:Q9ES83}

**Tissue Location**

Expressed in epithelial cells (at protein level). Expressed in fetal and adult heart and skeletal muscle

**BVES Antibody (C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**BVES Antibody (C-term) Blocking peptide - Images****BVES Antibody (C-term) Blocking peptide - Background**

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. Two transcript variants encoding the same protein have been found for this gene.

**BVES Antibody (C-term) Blocking peptide - References**

Kim, M., et al. Carcinogenesis 31(9):1685-1693(2010) Zhao, J., et al. BMC Med. Genet. 11, 96 (2010)  
Sulem, P., et al. Nat. Genet. 41(6):734-738(2009) Gudbjartsson, D.F., et al. Nat. Genet. 40(5):609-615(2008) Feng, Q., et al. Cancer Epidemiol. Biomarkers Prev. 17(3):645-654(2008)