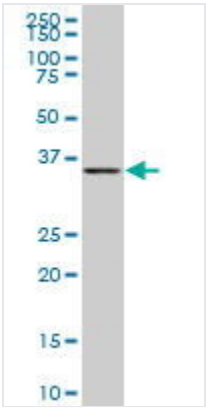
BVES Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	BVES, Monoclonal Antibody
Full Product Name	BVES (Blood Vessel Epicardial Substance, HBVES, MGC42413, POP1, POPDC1) (AP)
Product Gene Name	anti-BVES antibody
Product Synonym Names	Blood Vessel Epicardial Substance; HBVES; MGC42413; POP1; POPDC1
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1C3
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified
Specificity	Recognizes BVES.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	41kDa
OMIM	604577
3D Structure	ModBase 3D Structure for Q8NE79
Immunogen	BVES (NP_009004, 262aa-360aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	YSLNDPTLNDKKAKKLEHQLSLCTQISMLEMRNSIASSSDSDDGLHQFLRGTSSMSSLHVSSPHQRASAKMKPIEEGAEDDDDVFEPASPNTLKVHQLP
Conjugate	AP
Product Categories/Family for anti-BVES antibody	Antibodies; Cardiac Markers
Applications Tested/Suitable for anti-BVES antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-BVES antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-BVES antibody	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. [provided by RefSeq]

Other Notes	Small volumes of anti-BVES antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BVES purchase	MBS6163781 is an antibody targeting BVES. Also known as BVES (Blood Vessel Epicardial Substance, HBVES, MGC42413, POP1, POPDC1) (AP). Host: Mouse.



Western Blot (WB) of anti-BVES antibody
BVES monoclonal antibody (M01), clone 1C3. Western Blot analysis of BVES expression in IMR-32.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BVES. It may not necessarily be applicable to this product.

NCBI GI #	22202608
NCBI GeneID	11149
NCBI Accession #	NP_009004
UniProt Primary Accession #	Q8NE79
UniProt Related Accession #	Q8NE79
GenBank Nucleotide #	NM_007073
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
UniProt Protein Name	Blood vessel epicardial substance
UniProt Synonym Protein Names	Popeye domain-containing protein 1; Popeye protein 1
Protein Family	Blood vessel epicardial substance
UniProt Gene Name	BVES
UniProt Synonym Gene Names	POP1; POPDC1; hBVES; Popeye protein 1
UniProt Entry Name	POPD1_HUMAN
NCBI Protein Information	blood vessel epicardial substance

NCBI Summary for BVES	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]
UniProt Comments for BVES	BVES: 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. 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. Belongs to the popeye family. Protein type: Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 6q21 Cellular Component: tight junction; plasma membrane; integral to membrane; lateral plasma membrane Molecular Function: cAMP binding; structural molecule activity Biological Process: vesicle-mediated transport; regulation of cell shape; regulation of membrane potential; muscle development; positive regulation of locomotion; regulation of heart rate; hemopoietic progenitor cell differentiation; positive regulation of receptor recycling
Research Articles on BVES	**1.** Functional suppression of POPDC1 promoted breast cancer cell migration and proliferation, cAMP interacts with POPDC1 and up-regulates its expression in breast cancer cells.
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