Anti-POPD1 antibody

Description	Unconjugated Rabbit polyclonal to POPD1

Model	STJ190612
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Gene ID	11149
Gene Symbol	BVES
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	POPD1 Polyclonal Antibody detects endogenous levels of protein.
Tissue Specificity	Expressed in epithelial cells (at protein level). Expressed in fetal and adult heart and skeletal muscle.
Purification	POPD1 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Blood vessel epicardial substance hBVES Popeye domain-containing protein 1 Popeye protein 1
Molecular Weight	39 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG

Formulation	Liquid form in PBS containing 50% glycerol,and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:1152OMIM:604577
Alternative Names	Blood vessel epicardial substance hBVES Popeye domain-containing protein 1 Popeye protein 1
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 . 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 . 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 . 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 Localization	Lateral cell membrane Cell junction, tight junction Membrane Cell membrane, sarcolemma Membrane, caveola. Colocalizes with VAMP3 at the cell-cell contact in cardiac and skeletal muscle . 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.