

**ARHGEF40 polyclonal antibody**

Catalog: BS35961

Host: Rabbit

Reactivity: Human, Mouse

BackGround:

Rho guanine nucleotide exchange factor 40: Acts as a guanine nucleotide exchange factor (GEF) for RHOA and RHOC . Promotes actin stress fiber formation, force-induced stress fiber reinforcement and organization of KRT8/KRT18 networks via activation of RHOA/ROCK signaling, which is mediated by N-terminus KRT18 binding . Regulates the formation or maintenance of properly elongated morphology of epithelial tubules, via mediation of the organization and orientation of KRT18 filaments (By similarity). Promotes RHOA-dependent, cell-cell contact mediated reorientation of endothelial cells and their actin stress fibers in response to mechanotransduction . Positively regulates hemidesmosome formation via acting as a linker protein that anchors keratin filaments to hemidesmosomes . Also required for JUP localization at cell-cell adhesion junctions

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~165 kDa

Swiss-Prot:

Q8TER5

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of ARHGEF40 protein

DATA:

Western blot analysis of Cytokeratin 18 expression in HepG2 (A), Hela (B), mouse liver (C), mouse skeletal muscle (D), C2C12 (E), rat heart (F) whole cell lysates.

Immunofluorescent analysis of Cytokeratin 18 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a FITC-conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Note:

For research use only, not for use in diagnostic procedure.

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