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RhoG Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP53317

Product Information

Application	WB
Primary Accession	P84095
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21309

Additional Information

Gene ID	391
Other Names	Rho-related GTP-binding protein RhoG, RHOG, ARHG
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human RhoG. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	RHOG
Synonyms	ARHG
Function	Plays a role in immunological synaptic F-actin density and architecture organization (PubMed:33513601). Regulates actin reorganization in lymphocytes, possibly through the modulation of Rac1 activity (PubMed:33513601). Required for the formation of membrane ruffles during macropinocytosis (PubMed:15133129). Plays a role in cell migration and is required for the formation of cup-like structures during trans-endothelial migration of leukocytes (PubMed:17875742). Binds phospholipids in an activation-dependent manner; thereby acting as an anchor for other proteins to the plasma membrane (PM) (PubMed:33513601). Plays a role in exocytosis of cytotoxic granules (CG) by lymphocytes/Component of the exocytosis machinery in natural killer (NK) and CD8+ T cells (PubMed:33513601). Promotes the docking of cytotoxic granules (CG) to the plasma membrane through the interaction with UNC13D (PubMed:33513601). Involved in the

cytotoxic activity of lymphocytes/primary CD8+ T cells (PubMed:33513601).

Cellular Location Cell membrane; Lipid-anchor; Cytoplasmic side

Background

Required for the formation of membrane ruffles during macropinocytosis. Plays a role in cell migration and is required for the formation of cup-like structures during trans-endothelial migration of leukocytes. In case of Salmonella enterica infection, activated by SopB and ARHGEF26/SGEF, which induces cytoskeleton rearrangements and promotes bacterial entry.

References

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Miki T.,et al.Nature 362:462-465(1993).
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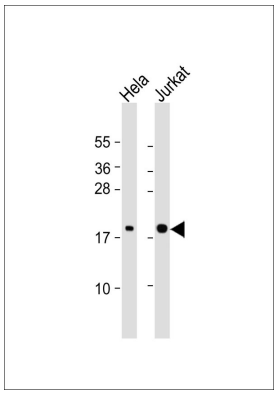
Ellerbroek S.M.,et al.Mol. Biol. Cell 15:3309-3319(2004).
Patel J.C.,et al.J. Cell Biol. 175:453-463(2006).

Images



All lanes : Anti-RhoG Antibody at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution. Predicted band size : 21 kDa Blocking/Dilution buffer: 5% NFDM/TBST.