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Anti-RhoG Antibody

Catalog # AP53317

Product Information

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

Additional Information

Gene ID	391
Other Names	ARHG; Rho-related GTP-binding protein RhoG
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 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
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). Acts as an activator of the ELMO-DOCK-Rac pathway (PubMed:32651375, PubMed:38857861). 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

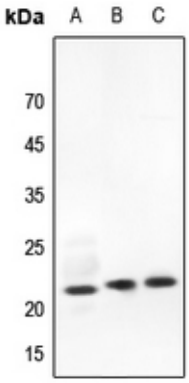
(PubMed:33513601). Involved in the cytotoxic activity of lymphocytes/primary CD8+ T cells (PubMed:33513601).

Cellular Location Cell membrane; Lipid-anchor; Cytoplasmic side

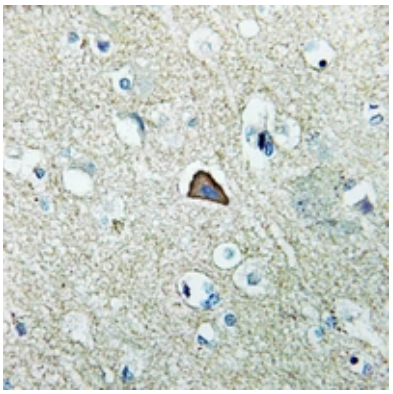
References

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Ellerbroek S.M.,et al.Mol. Biol. Cell 15:3309-3319(2004).
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Images



Western blot analysis of RhoG expression in mouse spleen (A), rat spleen (B), rat lung (C) whole cell lysates. (Predicted band size: 21 kD; Observed band size: 21 kD)



Immunohistochemical analysis of RhoG staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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