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Anti-ARHGEF1 Antibody

Rabbit polyclonal antibody to ARHGEF1
Catalog # AP59769

Product Information

Application	WB, IP
Primary Accession	Q92888
Other Accession	Q61210
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	102435

Additional Information

Gene ID	9138
Other Names	Rho guanine nucleotide exchange factor 1; 115 kDa guanine nucleotide exchange factor; p115-RhoGEF; p115RhoGEF; Sub1.5
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ARHGEF1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IP (1/10 - 1/100) IP~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

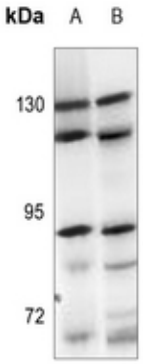
Name	ARHGEF1
Function	Seems to play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13) subunits (PubMed:9641915, PubMed:9641916). Acts as a GTPase-activating protein (GAP) for GNA12 and GNA13, and as guanine nucleotide exchange factor (GEF) for RhoA GTPase (PubMed:30521495, PubMed:8810315, PubMed:9641915, PubMed:9641916). Activated G alpha 13/GNA13 stimulates the RhoGEF activity through interaction with the RGS-like domain (PubMed:9641916). This GEF activity is inhibited by binding to activated GNA12 (PubMed:9641916). Mediates angiotensin-2-induced RhoA activation (PubMed:20098430). In lymphoid follicles, may trigger activation of GNA13 as part of S1PR2-dependent signaling pathway that leads to inhibition of germinal center (GC) B cell growth and migration outside the GC niche.

Cellular Location	Cytoplasm. Membrane. Note=Translocated to the membrane by activated GNA13 or LPA stimulation
Tissue Location	Ubiquitously expressed.

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ARHGEF1. The exact sequence is proprietary.

Images



Western blot analysis of ARHGEF1 expression in HuT78 (A), A549 (B) whole cell lysates.