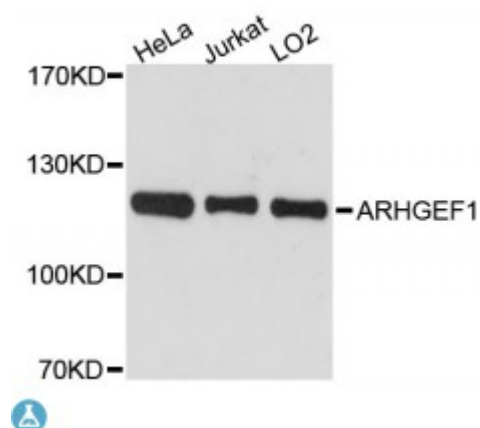


Anti-ARHGEF1 Antibody



Description

Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form complex with G proteins and stimulate Rho-dependent signals. Multiple alternatively spliced transcript variants have been found for this gene, but the full-length nature of some variants has not been defined.

Model	STJ116239
Host	Rabbit
Reactivity	Human
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 783-912 of human ARHGEF1 (NP_004697.2).
Gene ID	9138
Gene Symbol	ARHGEF1
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Ubiquitously expressed
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Rho guanine nucleotide exchange factor 1 115 kDa guanine nucleotide exchange factor p115-RhoGEF p115RhoGEF Sub1.5
Molecular Weight	102.435 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:681OMIM:601855Reactome:R-HSA-193648
Alternative Names	Rho guanine nucleotide exchange factor 1 115 kDa guanine nucleotide exchange factor p115-RhoGEF p115RhoGEF Sub1.5
Function	Seems to play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13) subunits, Acts as GTPase-activating protein (GAP) for GNA12 and GNA13, and as guanine nucleotide exchange factor (GEF) for RhoA GTPase, Activated G alpha 13/GNA13 stimulates the RhoGEF activity through interaction with the RGS-like domain, This GEF activity is inhibited by binding to activated GNA12, Mediates angiotensin-2-induced RhoA activation,
Cellular Localization	Cytoplasm,
Post-translational Modifications	Phosphorylated by PKCA, Angiotensin-2 induced Tyr-738 phosphorylation is mediated by JAK2,

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