

产品名称: Rho A (11B6) Rabbit Monoclonal Antibody
产品货号: AMRe17118



产品概述 (Summary)

产品名称 (Production Name)	Rho A (11B6) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB, ICC/IF, FC
种属反应性 (Reactivity)	Human, Mouse, Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	RHOA
别名 (Alternative Names)	RHOA; ARH12; ARHA; RHO12; RHOH12;
基因 ID (Gene ID)	387.0
蛋白 ID (SwissProt ID)	P61586.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:5000, ICC/IF 1:100-1:200, FC 1:100-1:200
蛋白分子量 (Molecular Weight)	22kDa

研究背景 (Background)

产品名称: Rho A (11B6) Rabbit Monoclonal Antibody
产品货号: AMRe17118



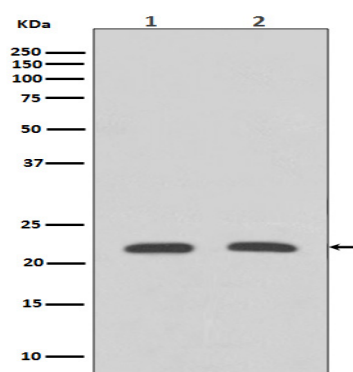
Rho A is a small G protein of the Rho family. Regulates a signal transduction pathway linking plasma membrane receptors to the assembly of focal adhesions and actin stress fibers. Small GTPase which cycles between an active GTP-bound and an inactive GDP-bound state. Mainly associated with cytoskeleton organization, in active state binds to a variety of effector proteins to regulate cellular responses such as cytoskeletal dynamics, cell migration and cell cycle. Regulates a signal transduction pathway linking plasma membrane receptors to the assembly of focal adhesions and actin stress fibers (PubMed: [8910519](http://www.uniprot.org/citations/8910519), PubMed: [9121475](http://www.uniprot.org/citations/9121475), PubMed: [31570889](http://www.uniprot.org/citations/31570889)). Involved in a microtubule-dependent signal that is required for the myosin contractile ring formation during cell cycle cytokinesis (PubMed: [16236794](http://www.uniprot.org/citations/16236794), PubMed: [12900402](http://www.uniprot.org/citations/12900402)). Plays an essential role in cleavage furrow formation. Required for the apical junction formation of keratinocyte cell-cell adhesion (PubMed: [20974804](http://www.uniprot.org/citations/20974804), PubMed: [23940119](http://www.uniprot.org/citations/23940119)). Essential for the SPATA13-mediated regulation of cell migration and adhesion assembly and disassembly (PubMed: [19934221](http://www.uniprot.org/citations/19934221)). The MEMO1-RHOA-DIAPH1 signaling pathway plays an important role in ERBB2- dependent stabilization of microtubules at the cell cortex. It controls the localization of APC and CLASP2 to the cell membrane, via the regulation of GSK3B activity. In turn, membrane-bound APC allows the localization of the MACF1 to the cell membrane, which is required for microtubule capture and stabilization (PubMed: [20937854](http://www.uniprot.org/citations/20937854)). Regulates KCNA2 potassium channel activity by reducing its location at the cell surface in response to CHRM1 activation; promotes KCNA2 endocytosis (PubMed: [9635436](http://www.uniprot.org/citations/9635436), PubMed: [19403695](http://www.uniprot.org/citations/19403695)). Acts as an allosteric activator of guanine nucleotide exchange factor ECT2 by binding in its activated GTP-bound form to the PH domain of ECT2 which stimulates the release of PH inhibition and promotes the binding of substrate RHOA to the ECT2 catalytic center (PubMed: [31888991](http://www.uniprot.org/citations/31888991)). May be an activator of PLCE1 (PubMed: [16103226](http://www.uniprot.org/citations/16103226)). In neurons, involved in the inhibition of the initial spine growth. Upon activation by CaMKII, modulates dendritic spine structural plasticity by relaying CaMKII transient activation to synapse-specific, long-term signaling (By similarity). Acts as a regulator of platelet alpha-granule release during activation and aggregation of platelets (By similarity).

研究领域 (Research Area)

Signal Transduction

图片 (Image Data)

产品名称: Rho A (11B6) Rabbit Monoclonal Antibody
产品货号: AMRe17118



Western blot analysis of Rho A expression in (1) HeLa cell lysate; (2) NIH/3T3 cell lysate.

注意事项 (Note)

For research use only .