Rho A Mouse mAb

Catalog No	YP-mAb-19096
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB
Gene Name	RHOA
Protein Name	Transforming protein RhoA
Immunogen	The antiserum was produced against synthesized peptide derived from human RhoA. AA range:144-193
Specificity	Rho A Polyclonal Antibody detects endogenous levels of Rho A protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal,Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	RHOA ; ARH12 ; ARHA ; RHO12 ; Transforming protein RhoA ; Rho cDNA clone 12 ; h12
Observed Band	22kD
Calculated Molecular Weight	
Cell Pathway	Cell membrane; Lipid-anchor; Cytoplasmic side. Cytoplasm, cytoskeleton. Cleavage furrow. Cytoplasm, cell cortex . Midbody. Cell projection, lamellipodium . Cell projection, dendrite . Nucleus . Localized to cell-cell contacts in calcium-treated keratinocytes (By similarity). Translocates to the equatorial region before furrow formation in a ECT2-dependent manner. Localizes to the equatorial cell cortex (at the site of the presumptive furrow) in early anaphase in an activated form and in a myosin- and actin-independent manner. .
Tissue Specificity	Adipose tissue,Brain,Colon,Mammary cancer,Oesophageal carcinoma,Placenta
Function	cofactor:Magnesium.,Domain:The basic-rich region is essential for yopT recognition and cleavage.,Function:Regulates a signal transduction pathway linking plasma membrane receptors to the assembly of focal adhesions and actin stress fibers. Serves as a target for the yopT cysteine peptidase from Yersinia pestis, vector of the plague, and Yersinia pseudotuberculosis, which causes gastrointestinal disorders. May be an activator of PLCE1. Activated by ARHGEF2,

	which promotes the exchange of GDP for GTP.,PTM:Cleaved by yopT protease when the cell is infected by some Yersinia pathogens. This removes the lipid attachment, and leads to its displacement from plasma membrane and to subsequent cytoskeleton cleavage.,PTM:Substrate for botulinum ADP-ribosyltransferase.,similarity:Belongs to the small GTPase superfamily. Rho family.,subunit:Interacts with RGNEF (By similarity). Binds PRKCL1, ROCK1 and ROCK2. Interacts with ARHGEF2, ARHGEF3, NET1 and RTKN. Interacts with PLCE1 and AKAP13. Interacts with human respiratory syncytial virus (HRSV) protein F; this interaction facilitates virus-induced syncytium formation.,
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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