



Rho A Mouse mAb(4E12)

Catalog No	YP-Ab-04809
Isotype	IgG
Reactivity	Human; Mouse;Rat
Applications	IHC;WB
Gene Name	RHOA ARH12 ARHA RHO12
Protein Name	Rho A
Immunogen	Synthesized peptide derived from human Rho A
Specificity	This antibody detects endogenous levels of Rho A at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.50% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	IHC-p1:50-200 ,WB 1:1000-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Transforming protein RhoA (Rho cDNA clone 12) (h12)
Observed Band	22kD
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,Re
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

Background

This gene encodes a member of the Rho family of small GTPases, which cycle between inactive GDP-bound and active GTP-bound states and function as molecular switches in signal transduction cascades. Rho proteins promote reorganization of the actin cytoskeleton and regulate cell shape, attachment, and motility. Overexpression of this gene is associated with tumor cell proliferation and metastasis. Multiple alternatively spliced variants have been identified. [provided by RefSeq, Sep 2015],

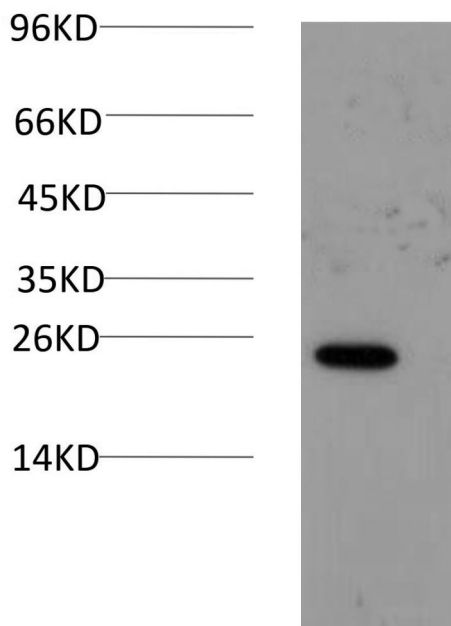
matters needing attention

Avoid repeated freezing and thawing!

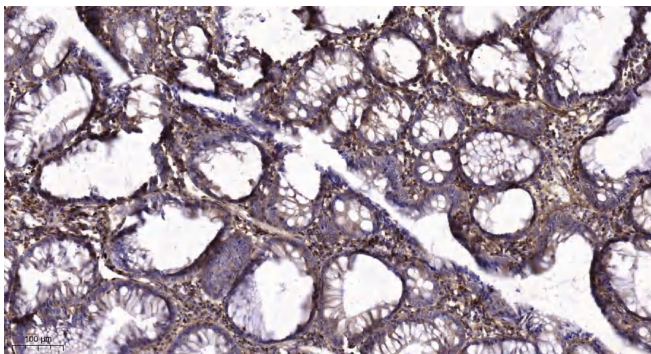
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot analysis of Hela Cell Lysate using RhoAMouse Monoclonal mAb diluted at 1:1,000.



Immunohistochemical analysis of paraffin-embedded human colon cancer. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight).3,Secondary antibody was diluted at 1:200(room temperature, 45min).