

Rho A (4E12) Mouse mAb

CatalogNo: YM33090

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat

Applications

- IHC, WB

MW

- 22kD (Observed)

Recommended Dilution Ratios

IHC1:50-200

WB 1:1000-2000

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Monoclonal

Clone Number 4E12

Immunogen Information

Immunogen Synthesized peptide derived from human Rho A

Specificity This antibody detects endogenous levels of Rho A at Human, Mouse, Rat

Target Information

Gene name RHOA ARH12 ARHA RHO12

Protein Name Rho A

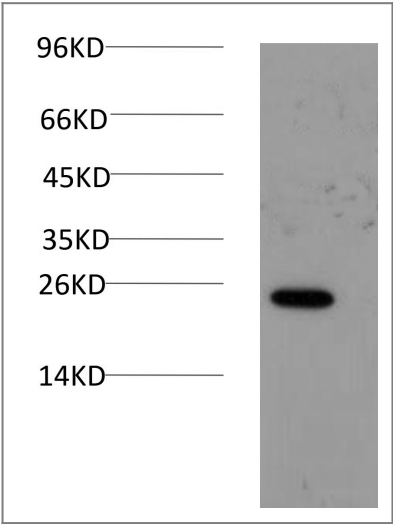
Organism	Gene ID	UniProt ID
Human	387 ;	P61586 ;
Mouse	11848 ;	Q9QUI0 ;
Rat	117273 ;	P61589 ;

Cellular Localization 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. .

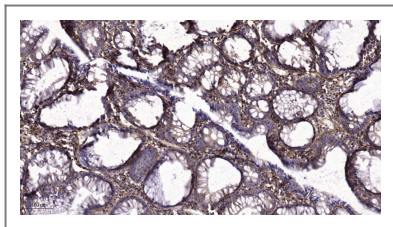
Tissue specificity Adipose tissue,Brain,Colon,Mammary cancer,Oesophageal carcinoma,Placenta,Re

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 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.,

Validation Data



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



Immunohistochemical analysis of paraffin-embedded human colon cancer. 1, Tris-EDTA, pH 9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200 (4° overnight). 3, Secondary antibody was diluted at 1:200 (room temperature, 45 min).

| Contact information

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Rho A (4E12) Mouse mAb

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