

# Rho A (Phospho Ser188) Rabbit pAb

CatalogNo: YP1567 Orthogonal Validated 

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB, ELISA, IHC

### MW

- 22kD (Observed)

### Isotype

- IgG

## 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.

## Recommended Dilution Ratios

**WB 1:500-2000****IHC 1:50-300****ELISA 1:2000-20000**

## Basic Information

**Clonality** Polyclonal

## Immunogen Information

**Immunogen** Synthesized peptide derived from human RhoA (Phospho Ser188)**Specificity** This antibody detects endogenous levels of Human, Mouse, Rat RhoA (Phospho Ser188). The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): KKSGC

## Target Information

**Gene name** RHOA ARH12 ARHA RHO12

**Protein Name** RhoA (Phospho Ser188)

Organism	Gene ID	UniProt ID
Human	<a href="#">387</a> ;	<a href="#">P61586</a> ;
Mouse	<a href="#">11848</a> ;	<a href="#">Q9QUI0</a> ;
Rat	<a href="#">117273</a> ;	<a href="#">P61589</a> ;

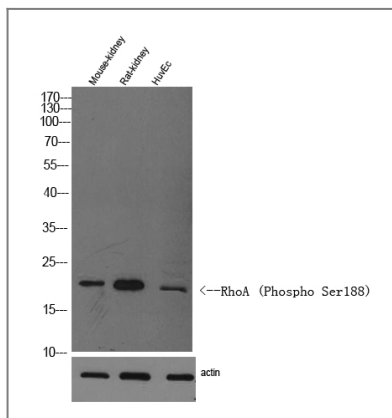
### Cellular Localization

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. .

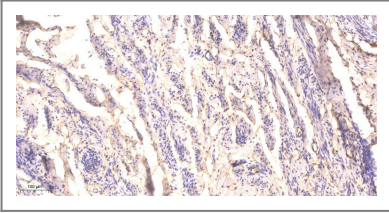
### Function

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 mouse kidney, rat kidney. Primary Antibody was diluted at 1:1000. Secondary antibody (catalog#:RS0002) was diluted at 1:10000



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

## | Contact information

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Please scan the QR code to access additional product information:  
**Rho A (Phospho Ser188) Rabbit pAb**

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