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Datasheet for ABIN758242

## anti-RHOA antibody (pSer188)

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### Overview

Quantity:	100 µL
Target:	RHOA
Binding Specificity:	pSer188
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RHOA antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human RhoA around the phosphorylation site of Ser188
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Sheep,Chicken
Purification:	Purified by Protein A.

### Target Details

Target:	RHOA
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## Target Details

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Alternative Name: RhoA ([RHOA Products](#))

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Background: Synonyms: RHOAphospho S188, RhoA protein, Aplysia ras related homolog 12, ARH 12, ARH12, ARHA, H 12, Oncogene RHO H12, Ras homolog gene family member A, RHO 12, Rho A, RHO H12, RHO12, RHOH 12, RHOH12, Small GTP binding protein Rho A, Small GTP binding protein RhoA, Transforming protein Rho A, Transforming protein RhoA.

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. The protein encoded by this gene is prenylated at its C-terminus, and localizes to the cytoplasm and plasma membrane. It is thought to be important in cell locomotion. Overexpression of this gene is associated with tumor cell proliferation and metastasis. Multiple alternatively spliced variants, encoding the same protein, have been identified.

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Gene ID: 387

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Pathways: [Microtubule Dynamics](#), [WNT Signaling](#), [Neurotrophin Signaling Pathway](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#), [Regulation of Actin Filament Polymerization](#), [Cell-Cell Junction Organization](#), [Positive Regulation of Endopeptidase Activity](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Thromboxane A2 Receptor Signaling](#), [SARS-CoV-2 Protein Interactome](#)

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## Application Details

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Application Notes: WB 1:300-5000  
ELISA 1:500-1000  
FCM 1:20-100  
IHC-P 1:200-400  
IHC-F 1:100-500  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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## Handling

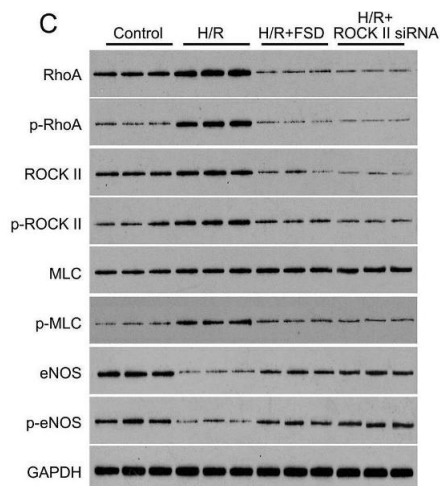
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

## Publications

Product cited in: Gu, Feng, Yu, Yuan, Yin, Ding, Zhao, Xu, Xu, Che: "Fasudil attenuates soluble fms-like tyrosine kinase-1 (sFlt-1)-induced hypertension in pregnant mice through RhoA/ROCK pathway." in: **Oncotarget**, Vol. 8, Issue 61, pp. 104104-104112, (2017) ([PubMed](#)).

Zhang, He, Lu, Bian, Yang, Fu, Wu, Li: "HSF1 Relieves Amyloid- $\beta$ -Induced Cardiomyocytes Apoptosis." in: **Cell biochemistry and biophysics**, (2015) ([PubMed](#)).

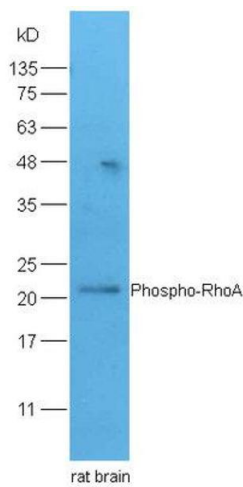
## Images



### Western Blotting

**Image 1.** Fasudil protects HUVEC cells from H/R-induced apoptosis(A) MTT was used to determine the IC50 of FSD in HUVEC cells cultured in standard condition. (B) Flow cytometry was used to measure the apoptosis rate in HUVEC cells with indicated treatment. HUVEC cells cultured in standard condition were used as control. (C) Western blot analysis for RhoA, ROCK, MLC, eNOS and their phosphorylated form in HUVEC cells with indicated treatment. The experiments were independently repeated for three times. The experiments were independently repeated three times. Data were expressed as mean  $\pm$  standard error. ANOVA with post hoc Tukey's test was used

for statistical analyses. H/R, Hypoxia-reoxygenation, FSD, fasudil. \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . - figure provided by CiteAb. Source: PMID29262624



### Western Blotting

**Image 2.** Lane 1: rat brain lysates probed with Rabbit Anti-RhoA(Ser188) Polyclonal Antibody, Unconjugated (ABIN758242) at 1:300 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:5000 for 90 min at 37 °C.