

Anti-ARHGAP22 pS22 (RABBIT) Antibody
Arhgap22 phospho S22 Antibody
Catalog # ASR5664**Specification**

Anti-ARHGAP22 pS22 (RABBIT) Antibody - Product Information

Host	Rabbit
Conjugate	Unconjugated
Target Species	Mouse
Reactivity	Rat, Human, Mouse
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	Anti-ARHGAP22 pS22 antibody is tested in Western Blot and ELISA useful for Immunostaining. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~77.8 kDa corresponding to the appropriate cell lysate or extract.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	ARHGAP22 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic phospho-peptide corresponding to the region surrounding mouse pS22 region of ARHGAP22.
Stabilizer	50% (v/v) Glycerol

Anti-ARHGAP22 pS22 (RABBIT) Antibody - Additional Information**Gene ID** 239027**Other Names**
239027**Purity**

Anti-ARHGAP22 pS22 was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific for phosphorylated ARHGAP22 at Serine 22. It also recognizes the S397->A mutation but not the S22->A mutation. A BLAST analysis was used to suggest cross-reactivity with Mouse, Rat and Human based on 100% sequence homology. Cross-reactivity with ARHGAP22 pS22 from other sources has not been determined.

Storage Condition

Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-ARHGAP22 pS22 (RABBIT) Antibody - Protein Information

Name Arhgap22

Function

Rho GTPase-activating protein involved in the signal transduction pathway that regulates endothelial cell capillary tube formation during angiogenesis. Acts as a GTPase activator for the RAC1 by converting it to an inactive GDP-bound state. Inhibits RAC1- dependent lamellipodia formation. May also play a role in transcription regulation via its interaction with VEZF1, by regulating activity of the endothelin-1 (EDN1) promoter.

Cellular Location

Cytoplasm. Nucleus. Note=Mainly cytoplasmic. Some fraction is nuclear

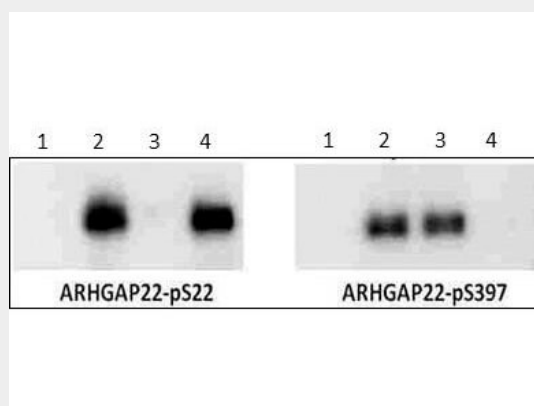
Tissue Location

Predominantly present in endothelial cells (at protein level).

Anti-ARHGAP22 pS22 (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ARHGAP22 pS22 (RABBIT) Antibody - Images

Western Blot of Rabbit anti-ARHGAP22 pS22 antibody. Lane 1: NIH3T3 cells transfected with a null vector. Lane 2: NIH3T3 cells transfected with ARHGAP22. Lane 3: NIH3T3 cells transfected with ARHGAP22 S22 to alanine mutation. Lane 4: NIH3T3 cells transfected with ARHGAP22 S397 to alanine mutation. Primary antibody: Left: ARHGAP22 pS22, Right: ARHGAP22 pS397 antibody at 1

µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO O/N at 4°C. Predicted/Observed size: 68 kDa for ARHGAP22. Other band(s): Unmodified ARHGAP22. ARHGAP22-pS22 antibody recognizes the S397>A mutation, not the S22>mutation; ARHGAP22 pS397 recognizes the pS22>A mutation, not the pS397>A mutation; Confirms the specificity of each ARHGAP22 phospho specific antibody.

Anti-ARHGAP22 pS22 (RABBIT) Antibody - Background

ARHGAP22 is a Rho GTPase-activating protein involved in the signal transduction pathway that regulates endothelial cell capillary tube formation during angiogenesis. It acts as a GTPase activator for RAC1 by converting it to an inactive GDP-bound state and also inhibits RAC1-dependent lamellipodia formation. It may also play a role in transcription regulation via its interaction with VEZF1, by regulating activity of the endothelin-1 (EDN1) promoter. Anti-ARHGAP22 [p Ser22] antibody is ideal for researchers interested in Diabetes Research, Lipid and Metabolism research.