

## Product datasheet for **TA397509**

### Arhgap22 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	<b>WB:</b> 1 µg/ml <b>IHC:</b> 1:100-1:500 <b>IF:</b> 1:100-1:500 <b>ELISA:</b> 1:20,000 - 1:60,000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
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 pS397 region of ARHGAP22.
Specificity:	Anti-ARHGAP22 pS397 was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific for phosphorylated ARHGAP22 at Serine 397. It also recognizes the S22->A mutation but not the S397->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 pS397 from other sources has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.07 mg/ml - lot specific
Conjugation:	Unconjugated
Storage:	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.
Stability:	Expiration date is six (6) months from date of receipt.
Gene Name:	Rho GTPase activating protein 22
Database Link:	<a href="#">Entrez Gene 239027 Mouse Q8BL80</a>



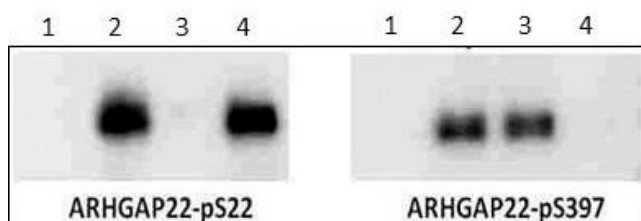
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**Background:** ARHGAP22 is a Rho GTPase-activating protein involved in the signal transduction pathway that regulates endothelial cell capillary tube formation during angiogenesis. It acts as a GTPase activator for RAC1 by converting it to an inactive 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 Ser397] antibody is ideal for researchers interested in Diabetes Research, Lipid and Metabolism research.

**Synonyms:** rabbit anti-ARHGAP pS397 antibody, ARHGAP 22, ARHGAP-22, Rho-type GTPase-activating protein 22, RHOGAP2, Rho GTPase activating protein 22, rho GTPase-activating protein 22

**Note:** Anti-ARHGAP22 pS397 antibody is tested for Western Blot and Immunostaining and useful for ELISA. 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.

### Product images:



Western Blot of Rabbit anti-ARHGAP22 pS397 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.