Product Datasheet

ARHGAP22 [p Ser397] Antibody - Azide Free
NBP1-44073

Unit Size: 0.05 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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Publications: 1

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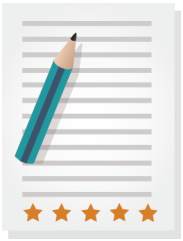
Updated 2/21/2025 v.20.1



NBP1-44073

ARHGAP22 [p Ser397] Antibody - Azide Free

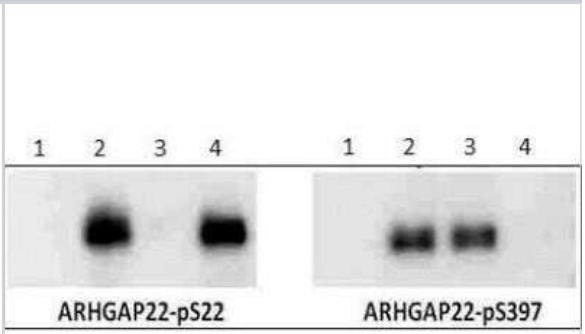
Product Information	
Unit Size	0.05 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 50% (v/v) Glycerol with 1 mg/ml Bovine Serum Albumin (BSA)

Product Description	
Description	This antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography Store vial at -20C prior to opening. Aliquot contents and freeze at -20C 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 4C as an undiluted liquid. Dilute only prior to immediate use.
Host	Rabbit
Gene ID	58504
Gene Symbol	ARHGAP22
Species	Human, Mouse, Rat
Reactivity Notes	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.
Specificity/Sensitivity	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.
Immunogen	ARHGAP22 [p Ser397] 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. (Uniprot: Q8BL80)

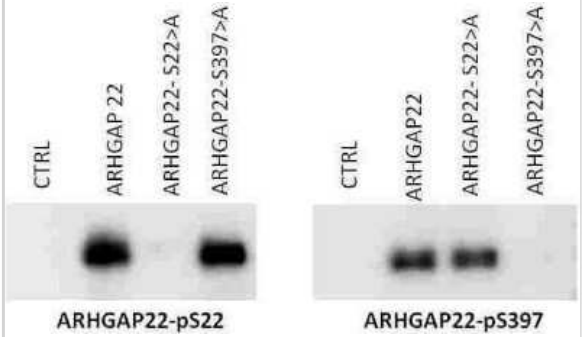
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1 ug/ml, ELISA 1:20000-1:60000, Immunohistochemistry 1:100-1:500, Immunocytochemistry/ Immunofluorescence 1:100-1:500
Application Notes	This product 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.

Images

Western Blot: ARHGAP22 [p Ser397] Antibody [NBP1-44073] - 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 1ug/mL for overnight at 4C. Secondary antibody: IRDye800 rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO O/N at 4C. 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.



Western Blot: ARHGAP22 [p Ser397] Antibody [NBP1-44073] - Western Blot: ARHGAP22 [Phospo Ser22] Antibody [NBP1-44072] - Protein Molecular weight: 68 kDa Cell extracts from NIH 3T3cells that were transfected with either a null vector (CTRL), ARHGAP22, ARHGAP22-serine 22 to alanine mutation, ARHGAP22 serine 397 to alanine mutation were electroblotted. The left panel was probed with the NBP1-44072 antibody, while the right panel was probed with the NBP1-44073 antibody, each at 1ug/ml. Each antibody recognizes the unmodified ARHGAP22. NBP1-44072 antibody recognized the S397->A mutation but not the S22->A mutation, while NBP1-44073 antibody recognizes the pS22->A mutation and not the pS397->A mutation. This data confirms the specificity of each ARHGAP22 phospho specific antibody.



Publications

Aitsebaomo J, Wennerberg K, Der CJ, Zhang C, Kedar V, Moser M, Kingsley-Kallesen ML, Zeng GQ, Patterson C. p68RacGAP is a novel GTPase-activating protein that interacts with vascular endothelial zinc finger-1 and modulates endothelial cell capillary formation. J Biol Chem;279(17):17963-72. 2004-04-23 [PMID: 14966113]

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Products Related to NBP1-44073

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-39028PEP	ARHGAP22 Recombinant Protein Antigen

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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