Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 200-401-946

AGAP2 Antibody

Overview

Description:	Anti-AGAP2 (RABBIT) Antibody - 200-401-946
Item No.:	200-401-946
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI). AGAP2 (also known as Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2) is a GTPase activating protein that inactivates Arf. The expression of AGAP2 is amplified in human glioblastoma cells. GTPase-activating protein (GAP) for ARF1 and ARF5, which also shows strong GTPase activity. It mediates anti-apoptotic effects of nerve growth factor by activating nuclear phosphoinositide 3-kinase. Isoform 1 participates in the prevention of neuronal apoptosis by enhancing PI3 kinase activity. It aids the coupling of metabotropic glutamate receptor 1 (GRM1) to cytoplasmic PI3 kinase by interacting with Homer scaffolding proteins, and seems to mediate anti-apoptotic effects of NGF by activating nuclear PI3 kinase. Isoform 2 does not stimulate PI3 kinase but may protect cells from apoptosis by stimulating Akt. It also regulates the adapter protein 1 (AP-1)-dependent trafficking of proteins in the endosomal system. It seems to be oncogenic. It is overexpressed in cancer cells, prevents apoptosis and promotes cancer cell invasion. Anti-AGAP2 Antibody is useful for researchers interested in Developmental Biology, apoptosis, Cancer, Immunology, and Nuclear Signaling research.
Synonyms:	rabbit anti-AGAP2 antibody, AGAP-2, AGAP 2, Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2 antibody, ArfGAP with GTPase domain, ankyrin repeat and PH domain 2 antibody, centaurin gamma1 antibody, Centg1 antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	AGAP2
Reactivity:	Human, Mouse
Immunogen Type:	Recombinant Protein
Immunogen:	This protein A purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a recombinant protein corresponding to amino acids 1-836 of human AGAP2 protein.
Purity/Specificity:	This protein A purified antibody is directed against human AGAP2 protein. The product was purified from monospecific antiserum by protein A chromatography. A BLAST analysis was used to suggest cross reactivity with AGAP2 protein from mouse and rat based on 93% and 95% protein:protein homologies, respectively, with the immunizing sequence. Reactivity against homologues from other sources is not known.
Relevant Links:	• NCBI - 7661962 • UniProtKB - Q99490 • GeneID - 116986

Application Details

Tested Applications:	ELISA, WB
Application Note:	This protein A purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 90 kDa in size corresponding to AGAP2 protein by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:40,000 - 1:200,000
WB:	1:5,000 - 1:20,000

Formulation

Physical State:	Lyophilized
Concentration:	2.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Stabilizer:	None
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. 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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

Western Blot
Western blot using Rockland's Protein A purified anti-AGAP2 antibody shows detection of AGAP2 recombinant protein in transfected HEK293 cell lysates. No specific band staining is noted in mock transfected cell lysates (empty vector). The membrane was probed with the primary antibody diluted to 1:10,000. Personal Communication, Paul Randazzo, CCR-NCI, Bethesda, MD.

Disclaimer