

Datasheet for ABIN5596983

anti-AGAP4 antibody[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	AGAP4
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Immunogen: Anti-AGAP4 antibody was prepared from whole rabbit serum produced by repeated immunizations with recombinant His-tagged AGAP4 protein. Immunogen Type: Recombinant Protein
Isotype:	IgG
Purification:	Anti-AGAP4 antibody was purified from monospecific antiserum by protein A affinity purification and the His-tag was removed by cross adsorption. An immunoblot assay detects overexpressed recombinant AGAP4.

Target Details

Target:	AGAP4
Alternative Name:	AGAP4 (AGAP4 Products)
Background:	Synonyms: AGAP4 antibody, CTGLF1, MRIP2, Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 4, Centaurin-gamma-like family member 1,

Target Details

Background: This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. The AGAPs are the largest subgroup of the ArfGAP family with 11 genes in humans. AGAP2 (also known as centaurin-gamma1, ARF-GAP with GTP-binding protein-like, ankyrin repeat and pleckstrin homology domains 2, Phosphatidylinositol-3-kinase enhancer, PIKE, GTP-binding and GTPase activating protein 2 and GGAP2) is a GTPase activating protein that inactivates Arf. The expression of AGAP2 is amplified in human glioblastoma cells and high expression has been reported to be associated with invasive tumors. The link between the behavior of cells overexpressing AGAP2 with the known biochemical activities of AGAP2 (binding clathrin adaptor proteins and inducing the hydrolysis of GTP bound to Arf) is not known. AGAP2 and other AGAP proteins likely function in the secretory pathway, which could explain a link with the invasive behavior of cancer cells. Most studies have focused on AGAP2, but it is one of the least widely expressed of the AGAPs. Reliable antibodies would be invaluable for studies of the physiologic function of the proteins and how it may be linked to cancer cell invasive behavior.

Gene ID: 119016

UniProt: [Q96P64](#)

Application Details

Application Notes: Application Note: Anti-AGAP4 antibody has been tested for use in western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 73 kDa in size corresponding to AGAP4 by western blotting in the appropriate cell lysate or extract.

Western Blot Dilution: 1:1000

ELISA Dilution: 1:10,000-1:20,000

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.04 mg/mL

Buffer: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

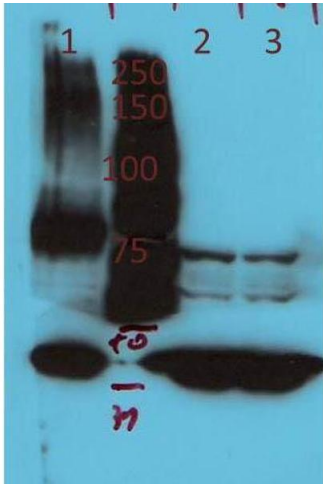
Stabilizer: None

Preservative: Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store antibody 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.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western Blot of Rabbit Anti-AGAP4 Antibody. Lane 1: HeLA cells treated with HA/AGAP4. Lane 2: HeLA cells control. Lane 3: HeLA cells treated with AGAP4/siRNA. Load: 10 µg per lane. Primary antibody: AGAP4 antibody at 1:1000 for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 71 kDa, 71 kDa for AGAP4. Other band(s): 42kDa Actin loading control.