

Product datasheet for **AP50861PU-N**

Centaurin gamma 1 (AGAP2) (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1/1000. Western blot: 1/100 - 1/500.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 850-877 amino acids from the C-terminal region of human CENTG1
Specificity:	This antibody reacts to CENTG1.
Formulation:	PBS State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.09% (W/V) sodium azide
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	124674 Da
Gene Name:	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2
Database Link:	Entrez Gene 216439 Mouse Entrez Gene 116986 Human Q99490



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Background:

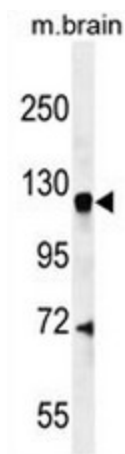
GTPase-activating protein (GAP) for ARF1 and ARF5, which also shows strong GTPase activity. Isoform 1 participates in the prevention of neuronal apoptosis by enhancing PI3 kinase activity. It aids the coupling of metabotropic glutamate receptor 1 (GRM1) to cytoplasmic PI3 kinase by interacting with Homer scaffolding proteins, and also 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.

Synonyms:

Centaurin-gamma-1, KIAA0167, GGAP2, PIKE

Protein Pathways:

Endocytosis

Product images:

CENTG1 Antibody (C-term) western blot analysis in mouse brain tissue lysates (35ug/lane). This demonstrates the CENTG1 antibody detected the CENTG1 protein (arrow).