

**CENTG1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10947b**

**Specification**

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**CENTG1 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q99490</a>
Other Accession	<a href="#">Q8CGU4</a> , <a href="#">Q3UHD9</a> , <a href="#">NP_001116244.1</a> , <a href="#">NP_055585.1</a>
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	124674
Antigen Region	850-877

**CENTG1 Antibody (C-term) - Additional Information**

**Gene ID** 116986

**Other Names**

Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2, AGAP-2, Centaurin-gamma-1, Cnt-g1, GTP-binding and GTPase-activating protein 2, GGAP2, Phosphatidylinositol 3-kinase enhancer, PIKE, AGAP2, CENTG1, KIAA0167

**Target/Specificity**

This CENTG1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 850-877 amino acids from the C-terminal region of human CENTG1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CENTG1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CENTG1 Antibody (C-term) - Protein Information**

**Name** AGAP2

**Synonyms** CENTG1, KIAA0167

**Function** 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.

**Cellular Location**

[Isoform 1]: Cytoplasm. Nucleus.

**Tissue Location**

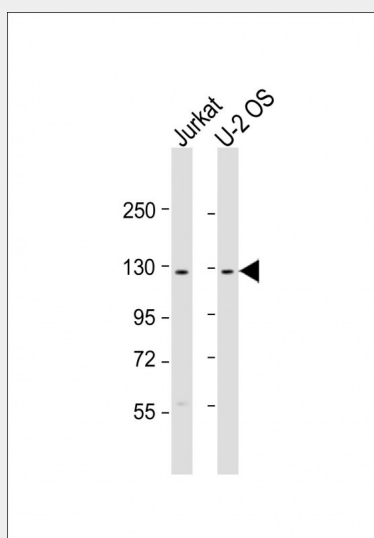
Isoform 1 is brain-specific. Isoform 2 is ubiquitously expressed, with highest levels in brain and heart

**CENTG1 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

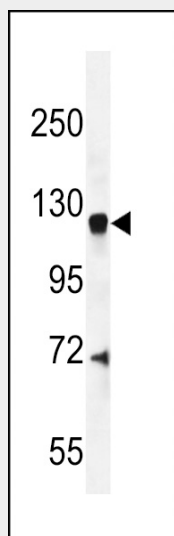
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**CENTG1 Antibody (C-term) - Images**



All lanes : Anti-CENTG1 Antibody (C-term) at 1:2000 dilution Lane 1: Jurkat whole cell lysate Lane 2: U-2 OS whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG,

(H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 125 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



CENTG1 Antibody (C-term) (Cat. #AP10947b) western blot analysis in mouse brain tissue lysates (35ug/lane). This demonstrates the CENTG1 antibody detected the CENTG1 protein (arrow).

#### **CENTG1 Antibody (C-term) - 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.

#### **CENTG1 Antibody (C-term) - References**

Shiba, Y., et al. J. Cell. Sci. 123 (PT 14), 2381-2390 (2010) :  
Zhu, Y., et al. J. Biol. Chem. 284(20):13489-13496(2009)  
Cai, Y., et al. Cancer Res. 69(3):819-827(2009)  
Tang, X., et al. Nat. Cell Biol. 10(6):698-706(2008)  
Liu, R., et al. Proc. Natl. Acad. Sci. U.S.A. 105(21):7570-7575(2008)