

**Goat Anti-CENTG1 / PIKE Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1230a****Specification**

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**Goat Anti-CENTG1 / PIKE Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O99490</a>
Other Accession	<a href="#">NP_055585</a> , <a href="#">116986</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	124674

**Goat Anti-CENTG1 / PIKE Antibody - 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

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-CENTG1 / PIKE Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-CENTG1 / PIKE Antibody - 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

### **Goat Anti-CENTG1 / PIKE Antibody - 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](#)

### **Goat Anti-CENTG1 / PIKE Antibody - Images**



AF1230a (0.3 µg/ml) staining of Human Amygdala lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### **Goat Anti-CENTG1 / PIKE Antibody - References**

Arf GTPase-activating protein AGAP2 regulates focal adhesion kinase activity and focal adhesion remodeling. Zhu Y, et al. J Biol Chem, 2009 May 15. PMID 19318351.  
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Netrin-1 mediates neuronal survival through PIKE-L interaction with the dependence receptor UNC5B. Tang X, et al. Nat Cell Biol, 2008 Jun. PMID 18469807.  
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endopeptidase. Liu Z, et al. Mol Cell, 2008 Mar 28. PMID 18374643.