

AGAP2 / PIKE Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS13368**Specification**

AGAP2 / PIKE Antibody (Internal) - Product Information

Application	WB, IHC
Primary Accession	Q99490
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	125kDa KDa

AGAP2 / PIKE Antibody (Internal) - 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

Human AGAP2 / PIKE. This antibody is expected to recognize isoform PIKE-S (NP_055585.1).

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

AGAP2 / PIKE Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

AGAP2 / PIKE Antibody (Internal) - 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

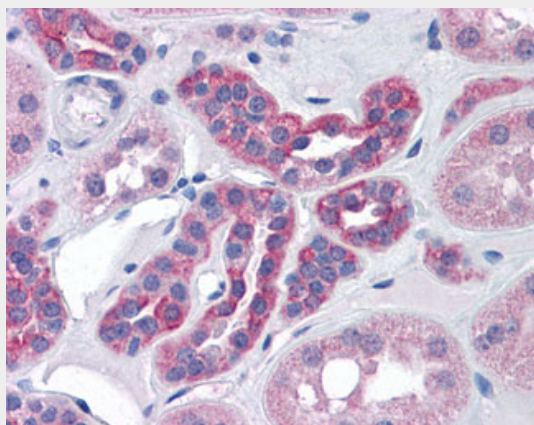
AGAP2 / PIKE Antibody (Internal) - Protocols

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](#)

AGAP2 / PIKE Antibody (Internal) - Images

Antibody (0.3 ug/ml) staining of Human Amygdala lysate (35 ug protein in RIPA buffer).



Anti-AGAP2 / PIKE antibody IHC of human kidney.

AGAP2 / PIKE Antibody (Internal) - 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.

AGAP2 / PIKE Antibody (Internal) - References

Elkahloun A.G.,et al.Genomics 42:295-301(1997).
Roe B.,et al.Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases.
Xia C.,et al.Mol. Cell. Biol. 23:2476-2488(2003).
Rong R.,et al.Nat. Neurosci. 6:1153-1161(2003).
Hong W.,et al.Submitted (AUG-2001) to the EMBL/GenBank/DDBJ databases.