10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

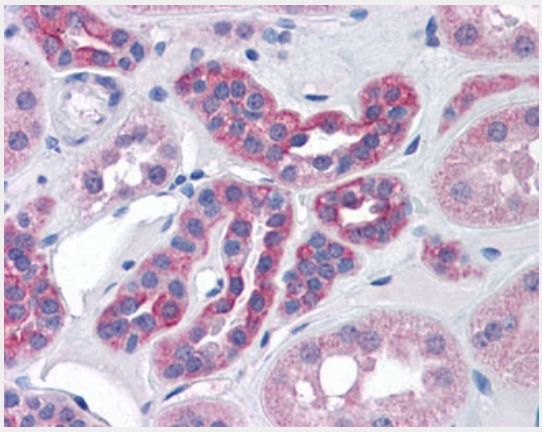
AGAP2 / PIKE Antibody (Internal) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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

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Rong R.,et al.Nat. Neurosci. 6:1153-1161(2003).
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