



AGAP2 mouse mAb

Catalog No	YP-mAb-18095
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	AGAP2 CENTG1 KIAA0167
Immunogen	Synthesized peptide derived from human AGAP2
Specificity	This antibody detects endogenous levels of AGAP2 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Cnt-g1;CENTG1;Centaurin-gamma-1;Arf-GAP with GTPase;ANK repeat and PH domain-containing protein 2;AGAP-2;AGAP2;AGAP2 CENTG1 KIAA0167;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); 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)
Observed Band	124 kDa
Calculated Molecular Weight	125 kDa
Cell Pathway	[Isoform 1]: Cytoplasm. Nucleus.; [Isoform 2]: Cytoplasm.
Tissue Specificity	Isoform 1 is brain-specific. Isoform 2 is ubiquitously expressed, with highest levels in brain and heart.
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.

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images