

AGAP2 Rabbit pAb

CatalogNo: YN8595

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 131kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-2000

| Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality Polyclonal

| Immunogen Information

Immunogen Synthesized peptide derived from human AGAP2

Specificity This antibody detects endogenous levels of AGAP2 at Human, Mouse, Rat

| Target Information

Gene name AGAP2 CENTG1 KIAA0167

Protein Name 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)

Organism	Gene ID	UniProt ID
Human	116986 ;	Q99490 ;
Mouse	216439 ;	Q3UHD9 ;
Rat	65218 ;	Q8CGU4 ;

Cellular Localization [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.

Validation Data

Contact information

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AGAP2 Rabbit pAb

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