

Datasheet for ABIN500501
anti-AGAP2 antibody (C-Term)[Go to Product page](#)

2 Images

Overview

| | |
|----------------------|--|
| Quantity: | 0.1 mg |
| Target: | AGAP2 |
| Binding Specificity: | C-Term |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This AGAP2 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA) |

Product Details

| | |
|-----------------------------|---|
| Immunogen: | PIKE antibody was raised against a peptide corresponding to 15 amino acids near the C-terminus of human PIKE. |
| Isotype: | IgG |
| Specificity: | This antibody detects AGAP2 / CENTG1 (C-term). It will detect both PIKE-L and PIKE-A isoforms. |
| Cross-Reactivity (Details): | Species reactivity (tested): Human, mouse |
| Purification: | Ion exchange chromatography |

Target Details

| | |
|---------|-------|
| Target: | AGAP2 |
|---------|-------|

Target Details

| | |
|-------------------|---|
| Alternative Name: | AGAP2 / CENTG1 (AGAP2 Products) |
| Background: | <p>Phosphoinositide 3 kinase enhancer (PIKE) is a recently identified nuclear GTPase that interacts with nuclear phosphoinositide 3-kinase (PI3 kinase) to stimulate its lipid kinase activity (1). PIKE exists in multiple isoforms, a shorter C-terminal isoform (PIKE-A) has also been identified as centaurin gamma 1 (reviewed in 2). The longest isoform (PIKE-L) has been shown to bind to the adaptor protein Homer and thereby link to metabotropic glutamate receptors, leading to activation of PI3 kinase activity and prevention of neuronal apoptosis (3). Overexpression of PIKE-A enhances Akt activity and promotes cancer cell invasion, whereas decreased expression of PIKE-A via dominant negative expression of PIKE-A or PIKE-A knockdown inhibits these processes (4). In many human cancers, expression of PIKE-A is enhanced, leading to increased Akt activity and preventing apoptosis. Synonyms: Arf-GAP GTPase ANK repeat and PH domain-containing protein 2, Centaurin-gamma-1, GGAP2, GTP-binding and GTPase-activating protein 2, KIAA0167, PIKE, Phosphatidylinositol-3-kinase enhancer</p> |
| Gene ID: | 116986 |
| UniProt: | Q99490 |

Application Details

| | |
|--------------------|---|
| Application Notes: | <p>ELISA. Western blot: 0.5 to 1 µg/mL. Immunohistochemistry on paraffin sections.</p> <p>Other applications not tested.</p> <p>Optimal dilutions are dependent on conditions and should be determined by the user.</p> |
| Restrictions: | For Research Use only |

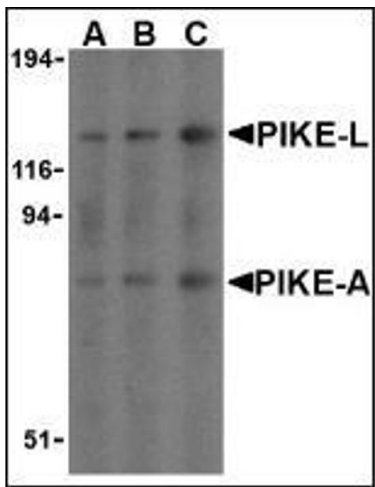
Handling

| | |
|--------------------|--|
| Buffer: | PBS containing 0.02 % sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freezing and thawing. |
| Storage: | 4 °C/-20 °C |
| Storage Comment: | Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. |



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of PIKE in mouse brain tissue with this product at 10 µg/ml.



Western Blotting

Image 2. Western blot analysis of PIKE in mouse brain cell lysates with this product at (A) 0.5, (B) 1, and (C) 2 µg/ml.