

## Product datasheet for **TA306168**

### Centaurin gamma 1 (AGAP2) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 0.5 - 2 ug/mL, ICC: 10 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	PIKE antibody was raised against a peptide corresponding to 15 amino acids near the C-terminus of human PIKE.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Ion exchange chromatography purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2
Database Link:	<a href="#">AAM97540</a> <a href="#">Entrez Gene 116986 Human</a> <a href="#">Q99490</a>



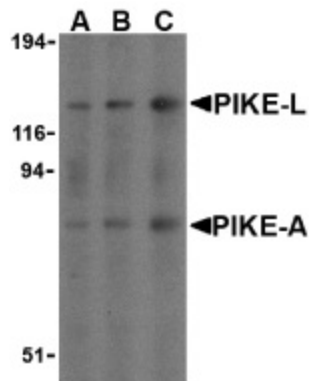
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**Background:**

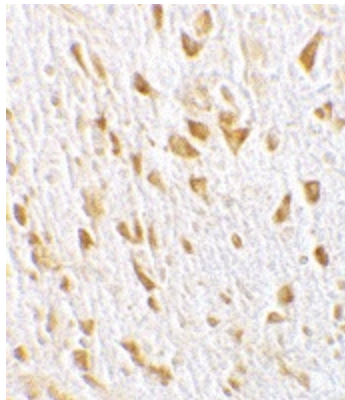
Phosphoinositide 3 kinase enhancer (PIKE) is a recently identified nuclear GTPase that interacts with nuclear phosphoinositide 3-kinase (PI3 kinase) to stimulate its lipid kinase activity (1). PIKE exists in multiple isoforms; a shorter C-terminal isoform (PIKE-A) has also been identified as centaurin 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:**

CENTG1; GGAP2; PIKE

**Product images:**


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



Immunohistochemistry of PIKE in mouse brain tissue with PIKE antibody at 10 ug/ml.