

## PIKE Antibody

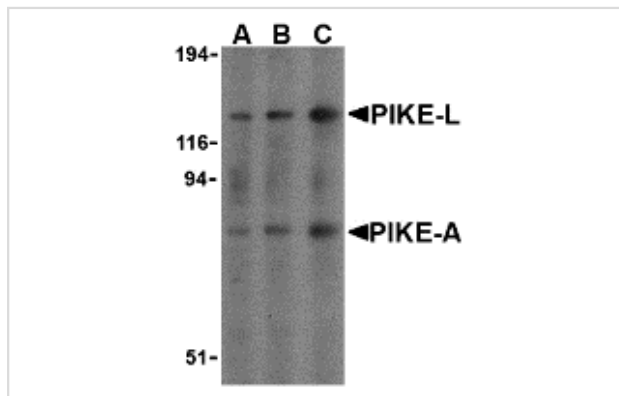
Catalog No: #24242

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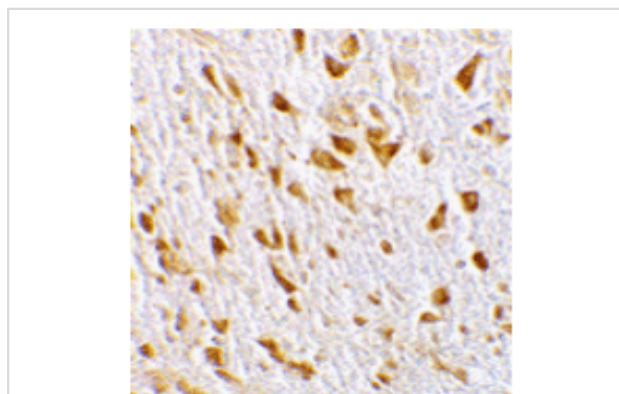
## Description

Product Name	PIKE Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Ion exchange chromatography purified
Applications	E WB IHC
Species Reactivity	Hu Ms
Specificity	Anti-PIKE will detect both PIKE-L and PIKE-A isoforms.
Immunogen Type	Peptide
Immunogen Description	Raised against a peptide corresponding to 15 amino acids near the C-terminus of human PIKE.
Target Name	PIKE
Accession No.	AAM97540
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

## 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.

## 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. PIKE exists in multiple isoforms; a shorter C-terminal isoform (PIKE-A) has also been identified as centaurin gamma 1. 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. 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. In many human cancers, expression of PIKE-A is enhanced, leading to increased Akt activity and preventing apoptosis.

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.