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MAP4K6 Rabbit pAb

Catalog # AP97926

Product Information

Application	IHC-P, IHC-F, IF
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	147 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MAP4K6
Epitope Specificity	951-1100/1332
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.Contains 1 CNH domain.Contains 1 protein kinase domain.
SUBUNIT	Interacts with TANC1. Interacts with RAP2A. Isoform 4 interacts with NCK1.
Post-translational modifications	Autophosphorylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MAP4K6 is a serine/threonine kinase belonging to the germinal center kinase (GCK) family. These kinases regulate a wide variety of cellular processes by coupling cell surface receptors to MAPK pathways. This kinase appears to act upstream of the JUN N-terminal pathway and may be involved in brain development. It may also play a role in the response to environmental stress, in cytoskeleton reorganization, cell adhesion, and cell motility. Alternative splicing occurs at this locus and four transcript variants encoding distinct isoforms have been identified.

Additional Information

Gene ID	50488
Other Names	MINK1_HUMAN; MINK1; GCK family kinase MiNK; MAPK/ERK kinase kinase kinase 6 (MEK kinase kinase 6 | MEKKK 6); Misshapen/NIK-related kinase; Mitogen-activated protein kinase kinase kinase kinase 6; 2.7.11.1; B55; MAP4K6; MINK; YSK2; ZC3; MEKKK 6; misshapen like kinase 1; misshapen-like kinase 1 (zebrafish); misshapen-like kinase 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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Function	Serine/threonine kinase which acts as a negative regulator of Ras-related Rap2-mediated signal transduction to control neuronal structure and AMPA receptor trafficking. Required for normal synaptic density, dendrite complexity, as well as surface AMPA receptor expression in hippocampal neurons. Can activate the JNK and MAPK14/p38 pathways and mediates stimulation of the stress-activated protein kinase MAPK14/p38 MAPK downstream of the Raf/ERK pathway. Phosphorylates: TANC1 upon stimulation by RAP2A, MBP and SMAD1. Has an essential function in negative selection of thymocytes, perhaps by coupling NCK1 to activation of JNK1. Isoform 4 can activate the JNK pathway. Involved in the regulation of actin cytoskeleton reorganization, cell-matrix adhesion, cell-cell adhesion and cell migration.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.