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MAP3K9 Rabbit pAb

Catalog # AP99253

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P80192
Other Accession	P80192
Reactivity	Human
Predicted	Rat, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	121895
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MAP3K9
Epitope Specificity	841-940/1104
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. MAP kinase kinase kinase subfamily.Contains 1 protein kinase domain.Contains 1 SH3 domain.
SUBUNIT	Homodimer.
Post-translational modifications	Autophosphorylation on serine and threonine residues within the activation loop plays a role in enzyme activation. Thr-312 is likely to be the main autophosphorylation site. Autophosphorylation also occurs on Thr-304 and Ser-308.
DISEASE	May play a role in esophageal cancer susceptibility and/or development.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a member of the serine/threonine kinase family. This kinase has been shown to activate MAPK8/JNK and MKK4/SEK1, and this kinase itself can be phoshorylated, and thus activated by JNK kinases. This kinase functions preferentially on the JNK signaling pathway, and is reported to be involved in nerve growth factor (NGF) induced neuronal apoptosis. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	4293
Other Names	MEKK9; MLK1; PRKE1; MEKK10; MLK2; MST; E130314H24Rik; M3K9_HUMAN; MAP3K9; Mixed lineage kinase 1; 2.7.11.25; M3K10_HUMAN; MAP3K10; Mixed lineage kinase 2; Protein kinase MST; M3K9_MOUSE; M3K10_MOUSE; mitogen-activated protein kinase kinase kinase 9
Dilution	WB=1:500-2000,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.

Protein Information

Name	MAP3K9
Synonyms	MLK1, PRKE1
Function	Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. Plays an important role in the cascades of cellular responses evoked by changes in the environment. Once activated, acts as an upstream activator of the MKK/JNK signal transduction cascade through the phosphorylation of MAP2K4/MKK4 and MAP2K7/MKK7 which in turn activate the JNKs. The MKK/JNK signaling pathway regulates stress response via activator protein-1 (JUN) and GATA4 transcription factors. Also plays a role in mitochondrial death signaling pathway, including the release cytochrome c, leading to apoptosis.
Tissue Location	Expressed in epithelial tumor cell lines of colonic, breast and esophageal origin.

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