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MAP3K9 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7963a

Specification

MAP3K9 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P80192
Other Accession	Q3U1V8
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**121895**
Antigen Region	**159-189**

MAP3K9 Antibody (N-term) - Additional Information

Gene ID 4293

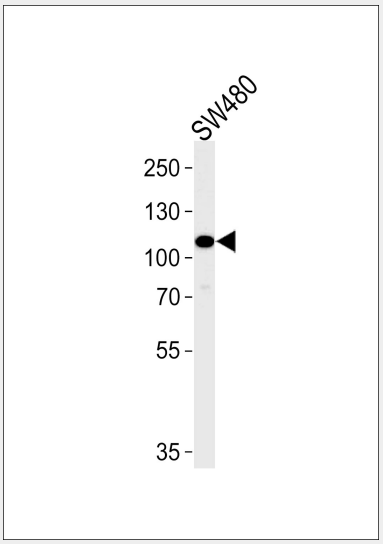
Other Names
Mitogen-activated protein kinase kinase kinase 9, Mixed lineage kinase 1, MAP3K9, MLK1, PRKE1

Target/Specificity
This MAP3K9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 159-189 amino acids from the N-terminal region of human MAP3K9.

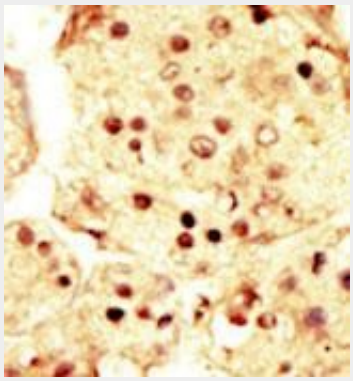
Dilution
WB~~1:1000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



MAP3K9 Antibody (N-term) (Cat. #AP7963a) western blot analysis in SW480 cell line lysates (35ug/lane).This demonstrates the MAP3K9 antibody detected the MAP3K9 protein (arrow).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

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Precautions
MAP3K9 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MAP3K9 Antibody (N-term) - 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. Plays also 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.

MAP3K9 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MAP3K9 Antibody (N-term) - Background

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The STE group (homologs of yeast Sterile 7, 11, 20 kinases) consists of 50 kinases related to the mitogen-activated protein kinase (MAPK) cascade families (Ste7/MAP2K, Ste11/MAP3K, and Ste20/MAP4K). MAP kinase cascades, consisting of a MAPK and one or more upstream regulatory kinases (MAPKKs) have been best characterized in the yeast pheromone response pathway. Pheromones bind to Ste cell surface receptors and activate yeast MAPK pathway.

MAP3K9 Antibody (N-term) - References

Dorow, D.S., et al., Eur. J. Biochem. 213(2):701-710 (1993).