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# MAP3K9 Rabbit pAb

Catalog # AP99257

## Product Information

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| **Application** | WB, IHC-P, IHC-F, IF |
| **Primary Accession** | P80192 |
| **Other Accession** | P80192 |
| **Reactivity** | Human, Mouse |
| **Predicted** | Rat, Pig, Rabbit, Chicken, Dog, Horse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 121895 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human MAP3K9 |
| **Epitope Specificity** | 231-330/1104 |
| **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

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| **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 |

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| **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

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| **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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