

Anti-MLK3 Polyclonal Antibody

CATALOG #: 3430-100**AMOUNT:** 100 µg**LOT #:** _____**HOST:** Rabbit**IMMUNOGEN:** Synthetic peptide mapping to the C-terminus of human MLK3.**SPECIES REACTIVITY:** human, mouse, rat**FORMULATION:**

100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% thimerosal.

STORAGE CONDITIONS:

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

BACKGROUND:

MLK3 (Mixed lineage kinase 3) is a serine/threonine kinase that has an amino-terminal SH3 domain followed by the kinase domain and two leucine zippers, a cdc42/Rac1 binding (CRIB) domain and several other domains/motifs at the carboxy-terminal region. MLK3 functions as a MAPKKK of the SAPK/JNK stress pathway by directly phosphorylating SEK1/MKK4 and MKK7, although it is controversial whether MLK3 is involved in p38 stress pathway activation. MLK3 also functions as an IκB kinase and mediates the activation of the transcriptional factor NF-κB stimulated by CD3/CD28, suggesting a role for MLK3 in immune and inflammatory responses.

SPECIFICITY:

The antibody recognizes 92 kDa MLK3 of human, mouse, and rat origins. It does not cross-react with MLK1, MLK2 and other mixed lineage kinases.

APPLICATION:

The antibody can be used in Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually.

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