MLK3 (phospho-T277/S281) polyclonal antibody

Catalog: BS64014 Host: Rabbit Reactivity: Human

BackGround:

Mixed lineage kinase 3 (MLK3) 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. CRIB triggers the dimerization of MLK3 via its tandem leucine zippers, followed by the intramolecular phosphorylation and subsequent activation of MLK3. Autophosphorylation of Thr277 and Ser281 is essential for MLK3 kinase activity. Ser281 is also phosphorylated by HPK in an in vitro kinase assay. 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.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.

Molecular Weight:

~ 92 kDa

Swiss-Prot:

Q16584

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:1000~1:2000

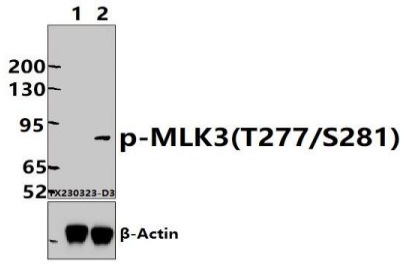
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

MLK3(Phospho-T277/S281) polyclonal antibody detects endogenous levels of MLK3 protein only when phosphorylated at Thr277/Ser281.

DATA:



Western blot (WB) analysis of MLK3 (phospho-T277/S281) polyclonal antibody at 1:1000 dilution

Lane1:Hela treated with λ-phosphatase whole cell lysate(30ug)

Lane2:Hela whole cell lysate(30ug)

Note:

For research use only, not for use in diagnostic procedure.

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