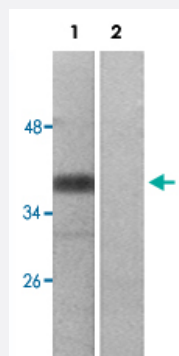


MAP2K3 (phospho T222) polyclonal antibody

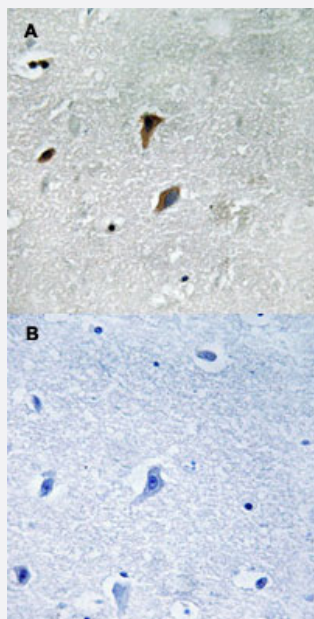
Catalog # PAB29210 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of Lane 1: Serum treated Jurkat cells Lane 2: antigen-specific peptide treated Jurkat cells with MAP2K3 (phospho T222) polyclonal antibody (Cat # PAB29210) at 1:500-1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human brain tissue by MAP2K3 (phospho T222) polyclonal antibody (Cat # PAB29210) without blocking peptide (A) or preincubated with blocking peptide (B) under 1:50-1:100 dilution.

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic phosphopeptide of human MAP2K3.

Immunogen

Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding T222 of human MAP2K3.

Host	Rabbit
Theoretical MW (kDa)	39
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of MAP2K3 only when phosphorylated at threonine 222.
Form	Liquid
Purification	Affinity purification
Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (without Mg ²⁺ and Ca ²⁺), (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Avoid repeated freezing and thawing.

Applications

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Gene Info — MAP2K3

Entrez GeneID	5606
Protein Accession#	P46734
Gene Name	MAP2K3
Gene Alias	MAPKK3, MEK3, MKK3, PRKMK3
Gene Description	mitogen-activated protein kinase kinase 3
Omim ID	602315

Gene Ontology

[Hyperlink](#)

Gene Summary

The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p38-MAPK. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter. Expression of RAS oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of MAPK14, and confers oncogenic transformation of primary cells. The inhibition of this kinase is involved in the pathogenesis of Yersinia pseudotuberculosis. Multiple alternatively spliced transcript variants that encode distinct isoforms have been reported for this gene. [provided by RefSeq]

Other Designations

MAP kinase kinase 3|MAPK/ERK kinase 3|OTTHUMP00000166044|dual specificity mitogen activated protein kinase kinase 3

Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)
- [Fc epsilon RI signaling pathway](#)
- [GnRH signaling pathway](#)
- [MAPK signaling pathway](#)
- [Toll-like receptor signaling pathway](#)