

Product Name: MAP2K2 Mouse Monoclonal Antibody
Catalog #: AMM80817



Summary

Production Name	MAP2K2 Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,ICC,FC,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Immunogen

Gene Name	MAP2K2
Alternative Names	MEK2; MKK2; MAPKK2
Gene ID	5605.0
SwissProt ID	P36507.Purified recombinant fragment of human MAP2K2 expressed in E. Coli.

Application

Dilution Ratio	WB:1:500-1:2000,ICC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000
Molecular Weight	44kDa

Background

MAP2K2, also called MEK2, it is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is

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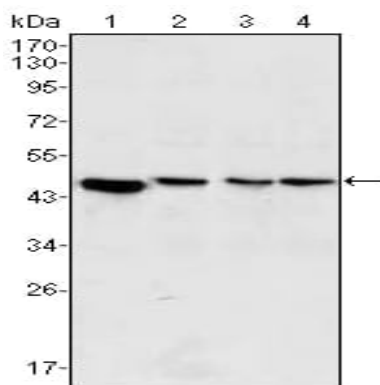


known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterized by heart defects, mental retardation, and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax.

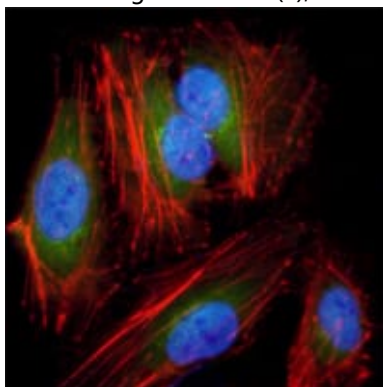
Research Area

TGF-beta signaling pathway, PI3K-Akt signaling pathway, MAPK signaling pathway, Jak-STAT signaling pathway

Image Data

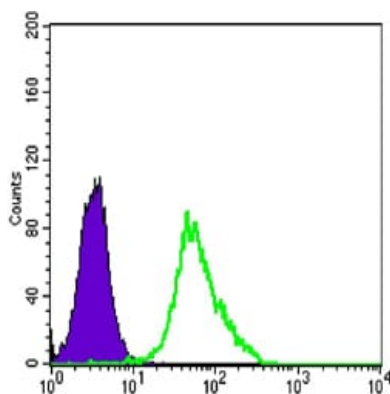


Western blot analysis using MAP2K2 mouse mAb against PC-12 (1), Jurkat (2), Hela (3) and NIH/3T3 (4) cell lysate.



Immunofluorescence analysis of Hela cells using anti-MAP2K2 mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

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Flow cytometric analysis of Hela cells using anti-MAP2K2 mAb (green) and negative control (purple).

Note

For research use only.