ARG57872
anti-MEK3 / MKK3 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MEK3 / MKK3
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MEK3 / MKK3
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-170 of Human MKK3 / MEK3 (NP_659731.1).
Conjugation	Un-conjugated
Alternate Names	SAPK kinase 2; MEK 3; MAPKK 3; Stress-activated protein kinase kinase 2; PRKMK3; EC 2.7.12.2; MAPK/ERK kinase 3; MEK3; MAPKK3; SAPKK2; SAPKK-2; MAP kinase kinase 3; MKK3; Dual specificity mitogen-activated protein kinase kinase 3

Application Instructions

Predict Reactivity Note	Human

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Mouse heart
Observed Size	39 kDa

Properties

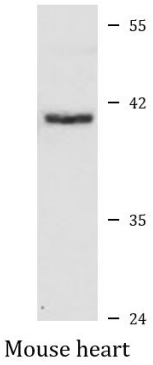
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	MAP2K3
Gene Full Name	mitogen-activated protein kinase kinase 3
Background	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase 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 Yersina pseudotuberculosis. Multiple alternatively spliced transcript variants that encode distinct isoforms have been reported for this gene. [provided by RefSeq, Jul 2008]
Function	Dual specificity kinase. Is activated by cytokines and environmental stress in vivo. Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinase p38. [UniProt]
Calculated Mw	39 kDa
PTM	Autophosphorylated. Phosphorylation on Ser-218 and Thr-222 by MAP kinase kinase kinases regulates positively the kinase activity (PubMed:8622669). Phosphorylated by TAOK2 (PubMed:11279118). Yersinia yopJ may acetylate Ser/Thr residues, preventing phosphorylation and activation, thus blocking the MAPK signaling pathway. [UniProt]

Images



ARG57872 anti-MEK3 / MKK3 antibody WB image

Western blot: 25 µg of Mouse heart lysate stained with ARG57872 anti-MEK3 / MKK3 antibody at 1:1000 dilution.