ARG51108
anti-MEK3 / MKK3 antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MEK3 / MKK3
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MEK3 / MKK3
Species	Human
Immunogen	Peptide sequence around aa.187~191 (V-D-S-V-A) derived from Human MKK3 / MEK3.
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

Application table

Application	Dilution
ICC/IF	1:100 - 1:200
IHC-P	1:50 - 1:100
WB	1:500 - 1:1000

Application Note

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

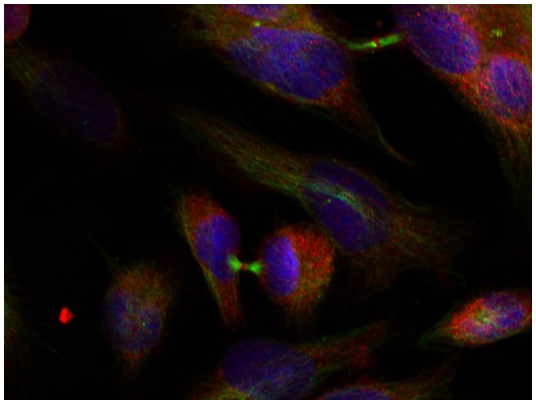
Form	Liquid
Purification	Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic peptide. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Buffer	PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
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

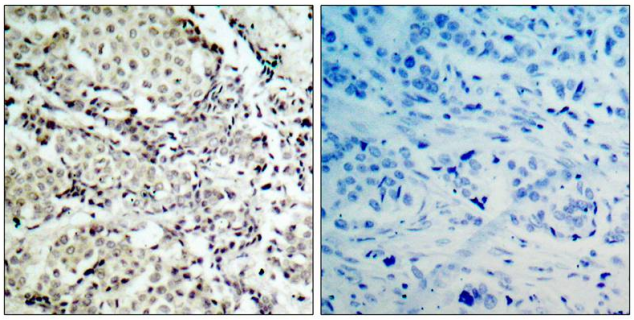
Database links	GeneID: 5606 Human Swiss-port # P46734 Human
Gene Symbol	MAP2K3
Gene Full Name	mitogen-activated protein kinase kinase 3
Background	MEK3 belongs to MAPKK family. This kinase is activated by mitogenic and environmental stress, and participates in the MAPK-mediated signaling cascade. It phosphorylates and thus activates p38. 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 p38, and confers oncogenic transformation of primary cells. The inhibition of this kinase is involved in the pathogenesis of Yersina pseudotuberculosis.
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]
Research Area	Cancer antibody; Gene Regulation antibody; Immune System antibody; Signaling Transduction antibody
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.

Images



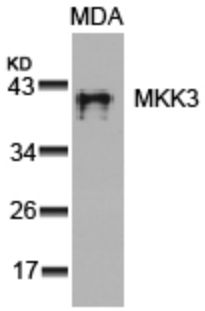
ARG51108 anti-MEK3 / MKK3 antibody ICC/IF image

Immunofluorescence: Methanol-fixed HeLa cells stained with ARG51108 anti-MEK3 / MKK3 antibody.



ARG51108 anti-MEK3 / MKK3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast carcinoma tissue stained with ARG51108 anti-MEK3 / MKK3 antibody (left) or the same antibody preincubated with blocking peptide (right).



ARG51108 anti-MEK3 / MKK3 antibody WB image

Western blot: Extracts from MDA cells stained with ARG51108 anti-MEK3 / MKK3 antibody.