ARG51645
anti-MEK6 / MKK6 phospho (Ser207) antibody

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

Summary

Product Description	Rabbit Polyclonal antibody recognizes MEK6 / MKK6 phospho (Ser207)
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MEK6 / MKK6
Species	Human
Immunogen	Peptide sequence around phosphorylation site of serine 207 (V-D-S(p)-V-A) derived from Human MKK6.
Conjugation	Un-conjugated
Alternate Names	SAPK kinase 3; MEK 6; MAPKK 6; MAPK/ERK kinase 6; EC 2.7.12.2; PRKMK6; SAPKK3; MAPKK6; SAPKK-3; Stress-activated protein kinase kinase 3; MKK6; MAP kinase kinase 6; Dual specificity mitogen-activated protein kinase kinase 6; MEK6

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

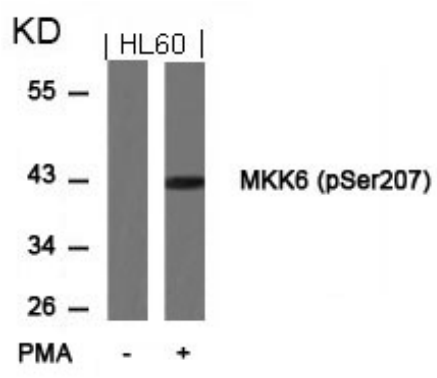
Form	Liquid
Purification	Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic phosphopeptide. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. In addition, non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
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

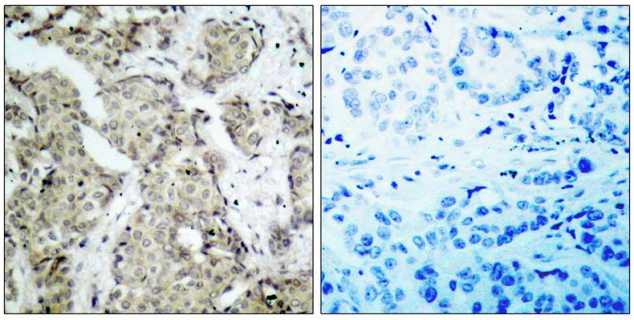
Database links	GeneID: 26399 Mouse GeneID: 5608 Human Swiss-port # P52564 Human Swiss-port # P70236 Mouse
Gene Symbol	MAP2K6
Gene Full Name	mitogen-activated protein kinase kinase 6
Background	Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in MAP kinase p38 exclusively.
Function	Dual specificity protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. With MAP3K3/MKK3, catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinases p38 MAPK11, MAPK12, MAPK13 and MAPK14 and plays an important role in the regulation of cellular responses to cytokines and all kinds of stresses. Especially, MAP2K3/MKK3 and MAP2K6/MKK6 are both essential for the activation of MAPK11 and MAPK13 induced by environmental stress, whereas MAP2K6/MKK6 is the major MAPK11 activator in response to TNF. MAP2K6/MKK6 also phosphorylates and activates PAK6. The p38 MAP kinase signal transduction pathway leads to direct activation of transcription factors. Nuclear targets of p38 MAP kinase include the transcription factors ATF2 and ELK1. Within the p38 MAPK signal transduction pathway, MAP3K6/MKK6 mediates phosphorylation of STAT4 through MAPK14 activation, and is therefore required for STAT4 activation and STAT4-regulated gene expression in response to IL-12 stimulation. The pathway is also crucial for IL-6-induced SOCS3 expression and down-regulation of IL-6-mediated gene induction; and for IFNG-dependent gene transcription. Has a role in osteoclast differentiation through NF-kappa-B transactivation by TNFSF11, and in endochondral ossification and since SOX9 is another likely downstream target of the p38 MAPK pathway. MAP2K6/MKK6 mediates apoptotic cell death in thymocytes. Acts also as a regulator for melanocytes dendricity, through the modulation of Rho family GTPases. [UniProt]
Research Area	Cancer antibody; Signaling Transduction antibody
Calculated Mw	37 kDa
PTM	Weakly autophosphorylated. Phosphorylated at Ser-207 and Thr-211 by the majority of M3Ks, such as MAP3K5/ASK1, MAP3K1/MEKK1, MAP3K2/MEKK2, MAP3K3/MEKK3, MAP3K4/MEKK4, MAP3K7/TAK1, MAP3K11/MLK3 and MAP3K17/TAOK2. Acetylation of Ser-207 and Thr-211 by Yersinia yopJ prevents phosphorylation and activation, thus blocking the MAPK signaling pathway.

Images



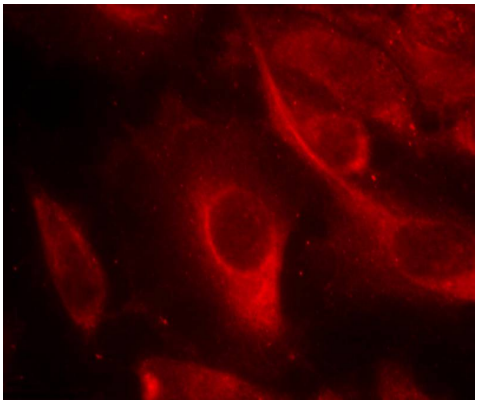
ARG51645 anti-MEK6 / MKK6 phospho (Ser207) antibody WB image

Western blot: Extracts from HL60 cells untreated or treated with PMA stained with ARG51645 anti-MEK6 / MKK6 phospho (Ser207) antibody.



ARG51645 anti-MEK6 / MKK6 phospho (Ser207) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast carcinoma tissue stained with ARG51645 anti-MEK6 / MKK6 phospho (Ser207) antibody (left) or the same antibody preincubated with blocking peptide (right).



ARG51645 anti-MEK6 / MKK6 phospho (Ser207) antibody ICC/IF image

Immunofluorescence: methanol-fixed HeLa cells showing cytoplasmic staining stained with ARG51645 anti-MEK6 / MKK6 phospho (Ser207) antibody.