

MKK6(Ab-207) Antibody

Catalog No: #21153

Package Size: #21153-1 50ul #21153-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	MKK6(Ab-207) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total MKK6 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.205~209 (V-D-S-V-A) derived from Human MKK6.
Target Name	MKK6
Other Names	MAP kinase kinase 6; MAP2K6; MAPK/ERK kinase 6; MAPKK 6; MEK6
Accession No.	Swiss-Prot: P52564NCBI Protein: NP_002749.2
Uniprot	P52564
GeneID	5608;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

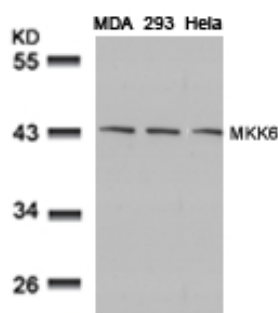
Predicted MW: 41kd

Western blotting: 1:500~1:1000

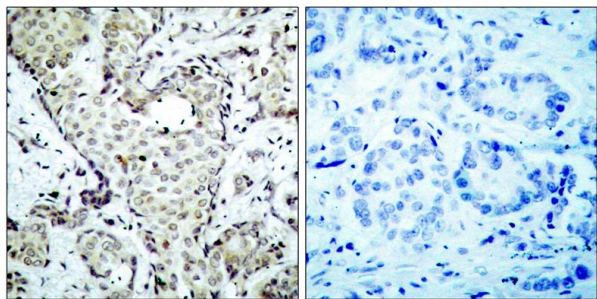
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

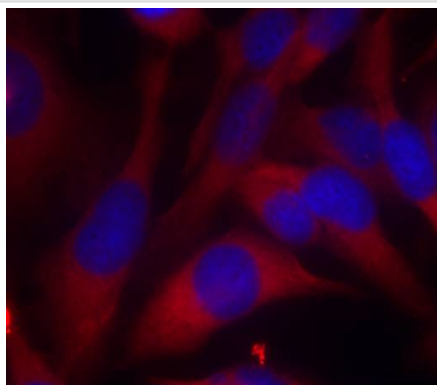
Images



Western blot analysis of extracts from MDA, 293 and HeLa cells using MKK6(Ab-207) Antibody #21153.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MKK6(Ab-207) Antibody #21153(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using MKK6(Ab-207) Antibody #21153.

Background

MEK6 is a member of MAPKK protein kinase family. By using degenerate oligonucleotide primers from the conserved kinase domains of MKK3 and MKK4 two human cDNAs and 1 murine cDNA encoding closely related proteins of the MKK family were cloned. The two human clones appear to be different isoforms of the same gene generated by differential splicing: the shorter clone was designated MKK6, encodes a 278-amino acid protein, while the longer clone, designated MKK6b, encodes a 334-amino acid protein. MKK6 is about 80% identical to MKK3 and 40% identical to MKK4. 1.7-kb human MKK6 transcript is highly expressed in skeletal muscle, while an MKK6b-specific probe detected mRNA bands of 1.8, 2.4, and 4.5 kb that are enriched in heart, skeletal muscle, pancreas and liver. MKK6 plays an important role in intracellular signaling pathways leading toward activation of the p38 MAP kinase. MEK6 phosphorylates and activates p38 in response to inflammatory cytokines or environmental stress. As an essential component of p38 MAPK mediated signal transduction pathway, this gene is involved in many cellular processes such as stress induced cell cycle arrest, transcription activation and apoptosis.

Wang W, et al. (2002) Mol Cell Biol ; 22(10): 3389-403.

Raingeaud J, et al. (1996) Mol Cell Biol; 16(3): 1247-55.

Note: This product is for in vitro research use only