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35-1498: Polyclonal Antibody to MKK6 (Ab-207)

Clonality :	Polyclonal
Application :	WB,IHC,IF
Reactivity :	Human,Mouse,Rat
Gene :	MAP2K6
Gene ID :	5608
Uniprot ID :	P52564
Format :	Purified
Alternative Name :	MAP kinase kinase 6, MAP2K6, MAPK/ERK kinase 6, MAPKK 6, MEK6
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around aa.205~209 (V-D-S-V-A) derived from Human MKK6.

Description

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.

Product Info

Amount :	50 µl / 100 µl
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 41kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100, Immunofluorescence: 1:100~1:200

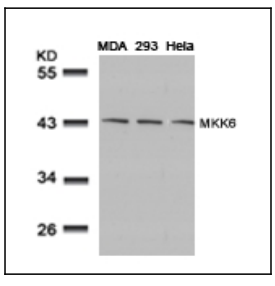


Figure 1: Western blot analysis of extracts from MDA, 293 and Hela cells using MKK6 (Ab-207) Antibody 35-1498 .

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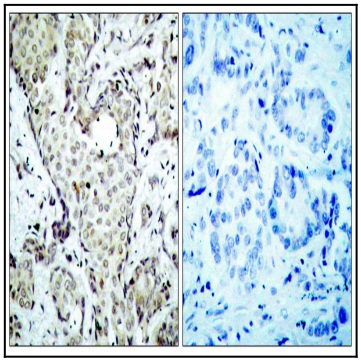


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MKK6 (Ab-207) Antibody 35-1498 (left) or the same antibody preincubated with blocking peptide(right).

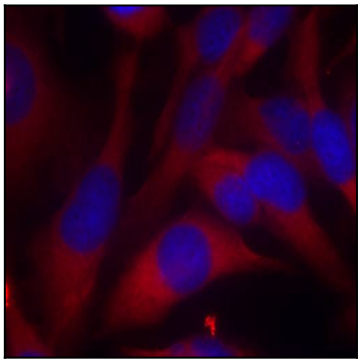


Figure 3: Immunofluorescence staining of methanol-fixed Hela cells using MKK6 (Ab-207) Antibody 35-1498 .

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