

MKK6 Antibody

✓ 100 µl
(10 Western mini-blots)

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This product is for *in vitro* research use only and is not intended for use in humans or animals.
This product is not intended for use as a therapeutic or in diagnostic procedures.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP Endogenous	H, M, R, Mk	41 kDa	Rabbit**

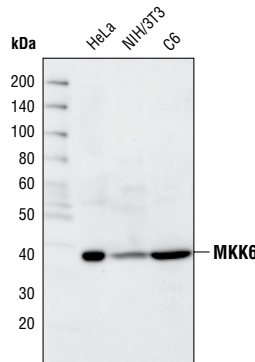
Background: MKK3 and MKK6 are two closely related dual-specificity protein kinases that activate p38 MAP kinase (1–5). MKK3 and MKK6 both phosphorylate and activate p38 MAP kinase at its activation site Thr-Gly-Tyr but do not phosphorylate or activate Erk1/2 or SAPK/JNK. Phosphorylation of p38 MAP kinase dramatically stimulates its ability to phosphorylate protein substrates such as ATF-2 and Elk-1. MKK3 and MKK6 are both activated by different forms of cellular stress and inflammatory cytokines (4,5). Activation of MKK3 and MKK6 occurs through phosphorylation of serine and threonine residues at sites Ser189 and Thr193 for MKK3 (2) and Ser207 and Thr211 for MKK6 (4,5).

Specificity/Sensitivity: MKK6 Antibody detects endogenous levels of total MKK6 protein.

Source/Purification: Polyclonal antibodies are produced by immunizing rabbits with a synthetic peptide (KLH-coupled) derived from the sequence of human MKK6. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

- (1) Derijard, B. et al. (1995) *Science* 267, 682–685.
- (2) Raingeaud, J. et al. (1995) *J. Biol. Chem.* 270, 7420–7426.
- (3) Sluss, H.K. et al. (1994) *Mol. Cell. Biol.* 14, 8376–8384.
- (4) Raingeaud, J. et al. (1996) *Mol. Cell. Biol.* 16(3), 1247–1255.
- (5) Han, J. et al. (1996) *J. Biol. Chem.* 271, 2886–2891.



Western blot analysis of extracts from HeLa, NIH/3T3 and C6 cells, using MKK6 Antibody.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

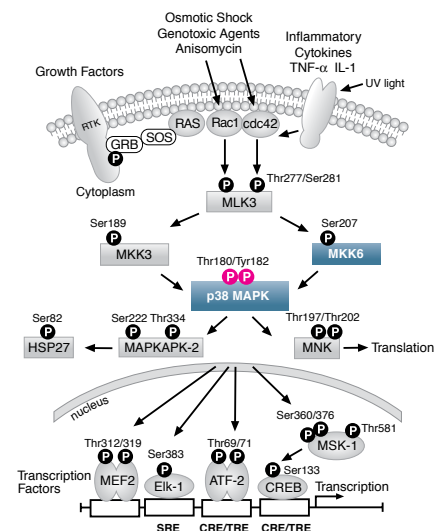
**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000
Immunoprecipitation 1:50

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.



IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.