

DESCRIPTION

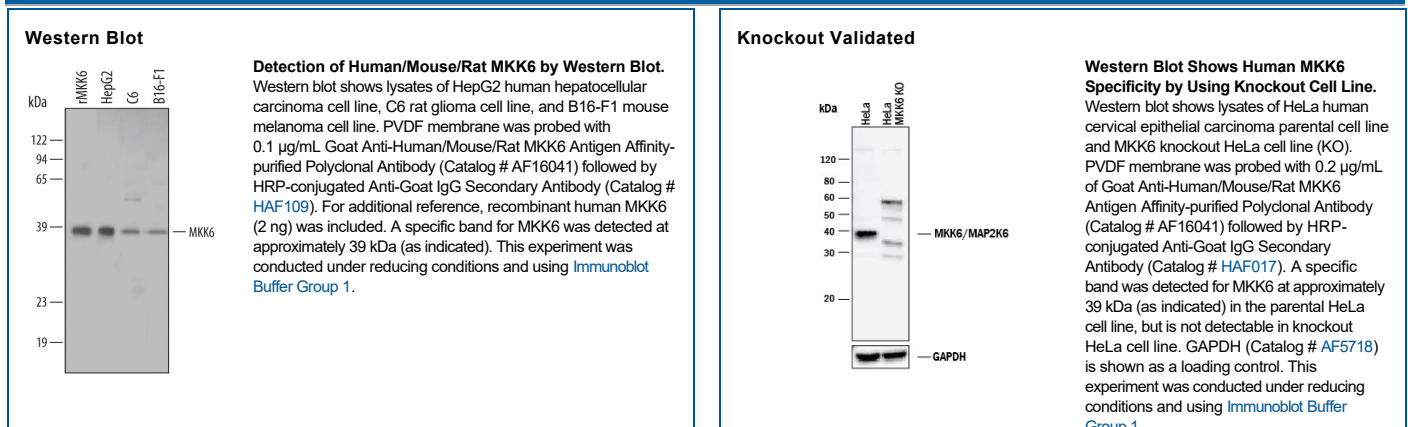
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat MKK6.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human MKK6 Ser2-Asp334 Accession # P52564
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	See Below
Knockout Validated	MKK6 is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in MKK6 knockout HeLa cell line.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Mitogen-activated protein kinase kinase 6 (MKK6), also known as MEK6, and the closely related MKK3 are activated by pro-inflammatory cytokines and environmental stresses (1, 2). Both MKK3 and MKK6 are dual specificity protein kinases, phosphorylating and activating the p38 MAP kinases at Thr and Tyr positions within the phosphoacceptor sequence Thr-Gly-Tyr (3). Activation of MKK6 occurs through phosphorylation at Ser207 and Thr211 (4) by several upstream MAPK kinase kinases, including ASK1 and TAK1 (5, 6). Purification of *E. coli*-expressed wild-type active MKK6 capable of p38α phosphorylation has been previously noted (7).

References:

1. Goedert, M. *et al.* (1997) EMBO J. **16**:3563.
2. Moriguchi, T. *et al.* (1996) J. Biol. Chem. **271**:26981.
3. Raingeaud, J. *et al.* (1995) J. Biol. Chem. **270**:7420.
4. Han, J. *et al.* (1996) J. Biol. Chem. **271**:2886.
5. Ichijo, H. *et al.* (1997) Science **275**:90.
6. Moriguchi, T. *et al.* (1996) J. Biol. Chem. **271**:13675.
7. Keesler, G. *et al.* (1998) Protein Expr. Purif. **14**:221.

PRODUCT SPECIFIC NOTICES

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