

DESCRIPTION

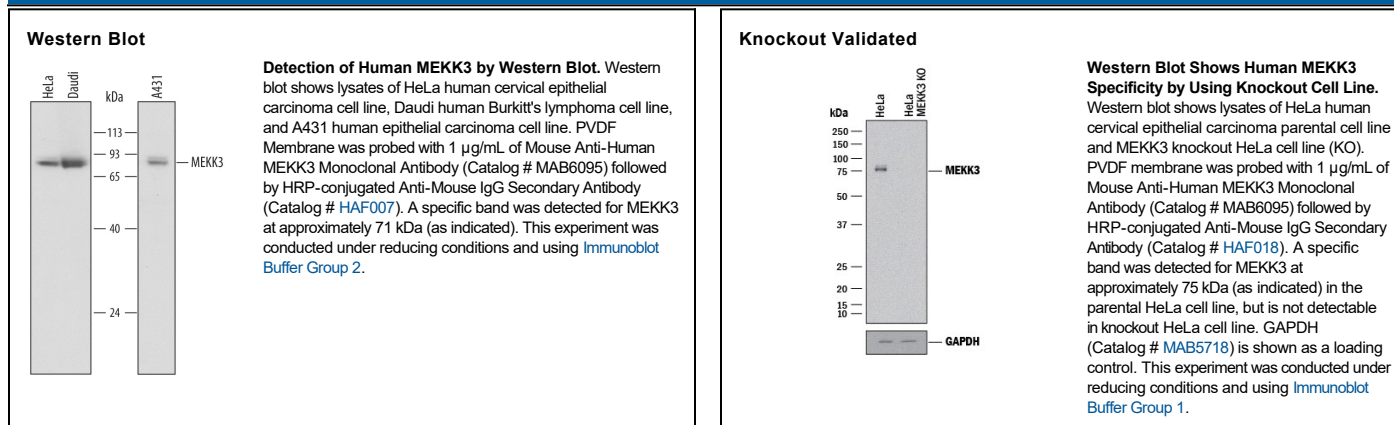
Species Reactivity	Human
Specificity	Detects human MEKK3 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 576240
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human MEKK3 Ser43-Tyr275 Accession # Q99759
Formulation	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	1 µg/mL	See Below
Knockout Validated	MEKK3 is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in MEKK3 knockout HeLa cell line.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

MAPK/ERK kinase kinase 3 (MEKK3), also known as MEK kinase 3 and MAP3K3, is a widely expressed 71 kDa Ser/Thr kinase in the SEK, MEK, and MyD88-IRAK-TRAF6 signal transduction pathways. It contains a PB1 domain (aa 45-123), a region with several phosphorylation sites, and a protein kinase domain (aa 361-621). MEKK3 is involved in tissue morphogenesis, inflammation, and the response to cellular stress. Its activation leads to the activation of NFκB following stimulation of IL-1 R, TLR4, TLR8, TNF RI, and the AT1 angiotensin receptor.