

## **Human MEKK3 Antibody**

Monoclonal Mouse IgG<sub>1</sub> Clone # 576240 Catalog Number: MAB6095

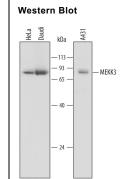
| DESCRIPTION        |  |  |
|--------------------|--|--|
| Species Reactivity | Human  |  |
| Specificity        | Detects human MEKK3 in direct ELISAs and Western blots.  |  |
| Source             | Monoclonal Mouse IgG <sub>1</sub> Clone # 576240   |  |
| Purification       | Protein A or G purified from hybridoma culture supernatant   |  |
| Immunogen          | E. coli-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

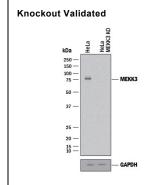
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

|                    | Recommended<br>Concentration           | Sample  |
|--------------------|--|---|
| Western Blot       | 1 μg/mL                                | See Below   |
| Knockout Validated | MEKK3 is specificall in MEKK3 knockout | y detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable HeLa cell line. |

## DATA



Detection of Human MEKK3 by Western Blot. Western blot shows lysates of Hel.a human cervical epithelial carcinoma cell line, Daudi human Burkitt's lymphoma cell line, and A431 human epithelial carcinoma cell line. PVDF Membrane was probed with 1 µg/mL of Mouse Anti-Human MEKK3 Monoclonal Antibody (Catalog # MAB6095) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for MEKK3 at approximately 71 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2



Western Blot Shows Human MEKK3 Specificity by Using Knockout Cell Line. Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and MEKK3 knockout HeLa cell line (KO). PVDF membrane was probed with 1  $\mu$ g/mL of Mouse Anti-Human MEKK3 Monoclonal Antibody (Catalog # MAB6095) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for MEKK3 at approximately 75 kDa (as indicated) in the parental HeLa cell line, but is not detectable in knockout HeLa cell line. GAPDH (Catalog # MAB5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

| 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.  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 NFkB following stimulation of IL-1 R, TLR4, TLR8, TNF RI, and the AT1 angiotensin receptor.

Rev. 2/7/2018 Page 1 of 1

