

DESCRIPTION

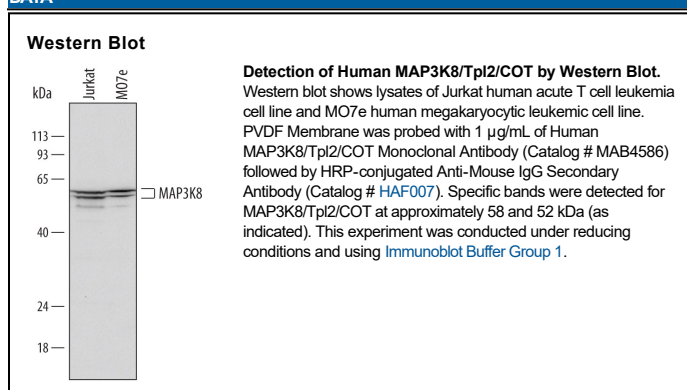
Species Reactivity	Human
Specificity	Detects human MAP3K8/Tpl2/COT in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 634130
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human MAP3K8/Tpl2/COT Gln173-Gln395 Accession # P41279
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

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

MAP3K8, also called Tpl2 (tumor progression locus 2) or COT (Cancer Osaka Thyroid oncogene) is a cytosolic Ser/Thr kinase. MAP3K8 is one of the MAP kinase kinase (MAPKK) kinases that regulates the ERK1/ERK2 pathway in response to IL-1, facilitating IL-8 and MIP-1β production. MAP3K8 activates IκB kinases and induces the nuclear production of NF-κB. Human MAP3K8 shares 97% and 98% amino acid (aa) identity with mouse and rat MAP3K8, respectively, within the region used as an immunogen. Alternative start sites can give a 58 kDa (467 aa) isoform with stronger activity but shorter half-life than a 52 kDa (397 aa) isoform.