

Human MAP3K8/Tpl2/COT Antibody

Monoclonal Mouse IgG_{2B} Clone # 634130 Catalog Number: MAB4586

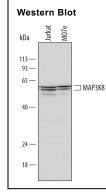
| DESCRIPTION | | |
|--------------------|--|--|
| Species Reactivity | Human | |
| Specificity | Detects human MAP3K8/Tpl2/COT in direct ELISAs and Western blots. | |
| Source | Monoclonal Mouse IgG _{2B} Clone # 634130 | |
| Purification | Protein A or G purified from hybridoma culture supernatant | |
| Immunogen | E. coli-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



Detection of Human MAP3K8/Tpl2/COT by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line and MO7e human megakaryocytic leukemic cell line. PVDF Membrane was probed with 1 µg/mL of Human MAP3K8/Tpl2/COT Monoclonal Antibody (Catalog # MAB4586) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). Specific bands were detected for

MAP3K8/Tpl2/COT at approximately 58 and 52 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

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

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

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-kB. 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.

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