

Human MLK2 Antibody

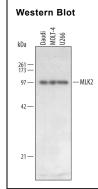
Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5066

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects endogenous human MLK2 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human MLK2 His345-Arg495 Accession # Q02779
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



Detection of Human MLK2 by Western Blot. Western blot shows lysates of Daudi human Burkitt's lymphoma cell line, MOLT-4 human acute lymphoblastic leukemia, and U266 human myeloma cell line. PVDF membrane was probed with 1 µg/mL of Human MLK2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5066) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for MLK2 at approximately 104 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 1.

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.		

- 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

MLK2 (mixed lineage kinase 2; also MST and MAP3K10) is a member of the STE Ser/Thr kinase family of enzymes. It is expressed in neurons, lymphoid tissue, and skeletal muscle, where it participates in apoptosis. Human MLK2 is 954 amino acids (aa) in length. It contains an N-terminal SH3 domain (aa 23-76), followed by a kinase domain that likely acts to phosphorylate Ser/Thr (aa 99-355), two Leu-zipper segments that mediate homodimerization (aa 384-419) and a C-terminal Ser/Thr/Pro-rich region that undergoes phosphorylation at multiple sites (aa 497-954). There is one splice variant that shows an in-frame 16 aa substitution for the 16 aa between aa 465-480.

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