

#### DESCRIPTION

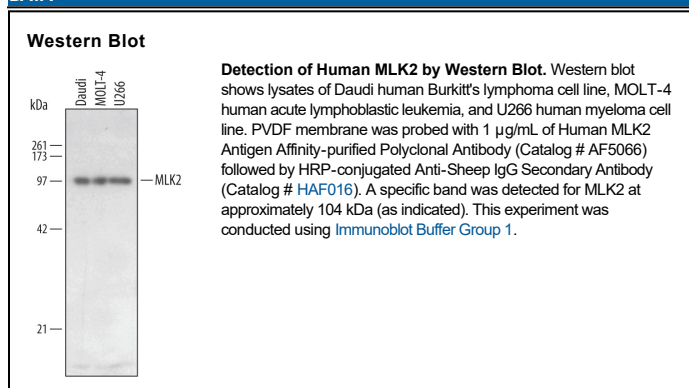
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects endogenous human MLK2 in Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human MLK2 His345-Arg495 Accession # Q02779
<b>Formulation</b>	Lyophilized 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below

#### DATA



#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

#### 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.