

**DESCRIPTION**

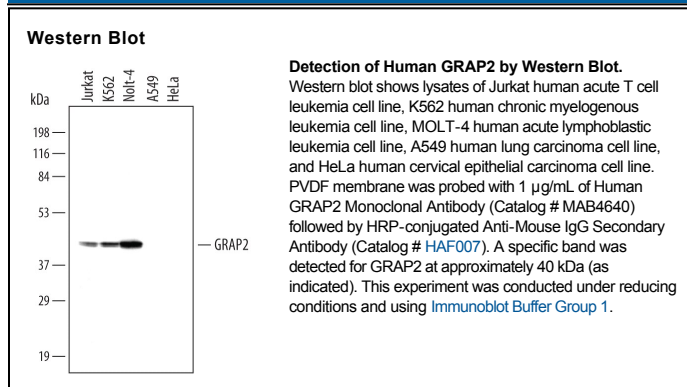
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects endogenous human GRAP2 in Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 475804
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human GRAP2 Met1-Arg330 Accession # O75791
<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 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 0.5 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**

GRAP2 (GRB2 related adaptor protein 2), a divergent member of the GRB2/Sem5/Drk family, is an adaptor protein involved in leukocyte-specific protein-tyrosine kinase signaling. GRAP2 shares similar structural organization as GRB2 and GRAP with a central SH2 domain flanked by 2 SH3 domains. However, unlike GRB2 and GRAP, the SH2 domain and the C-terminal SH3 domain of GRAP2 contains a unique 120-amino acid glutamine/proline rich sequence. In T lymphocytes, GRAP2 interacts with LAT and SLP-76 to regulate NF-AT (nuclear factor of activated T cells) and form a signaling complex with HPK1 to mediate the JNK signaling pathway. GRAP2 also interacts with M-CSF R and the activated T cell co-stimulatory receptor CD28.