

## DESCRIPTION

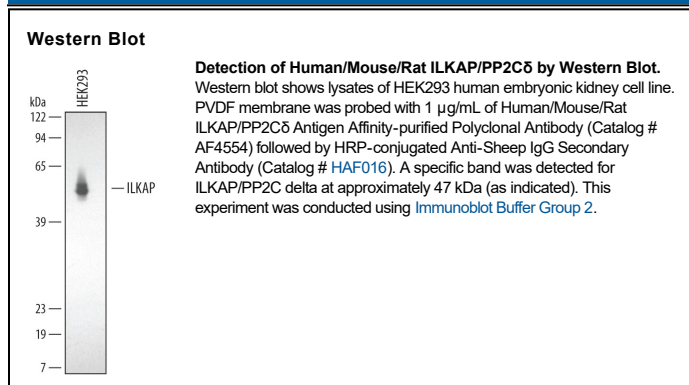
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects endogenous human ILKAP in Western blots. In direct ELISAs, this antibody shows weak cross-reactivity with PP2Cα (4%), PP2Cβ (6%), and PP2Cγ (1%).
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human ILKAP Met1-His392 Accession # Q9H0C8
<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

Integrin Linked Kinase 1 Associated Phosphatase (ILKAP), also called PP2Cdelta, is a serine/threonine phosphatase that is stimulated by Mn<sup>2+</sup> ions but inhibited by Mg<sup>2+</sup> and is insensitive to the phosphatase inhibitor okadaic acid. It binds to ILK1 and dephosphorylates it, decreasing the stimulation of the GSK-3β pathway by cell adhesion without affecting Akt signaling. Transfection studies have shown that ILKAP activity inhibits cell cycle progression from the G1 to S phase. ILKAP is expressed in many tissues but is highest in skeletal and cardiac muscle. Its gene is found in a region of chromosome 2 that is frequently deleted in oral cancers.