

## DESCRIPTION

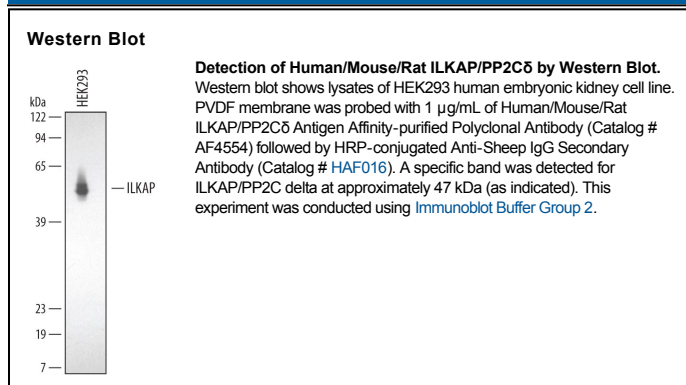
|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Human/Mouse/Rat   |
| <b>Specificity</b>        | Detects endogenous human ILKAP in Western blots. In direct ELISAs, this antibody shows weak cross-reactivity with PP2Cα (4%), PP2Cβ (6%), and PP2Cγ (1%).                               |
| <b>Source</b>             | Polyclonal Sheep IgG  |
| <b>Purification</b>       | Antigen Affinity-purified   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human ILKAP<br>Met1-His392<br>Accession # Q9H0C8  |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*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.

|                     | Recommended Concentration | Sample    |
|---------------------|---------------------------|-----------|
| <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.<br>*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.