

DESCRIPTION

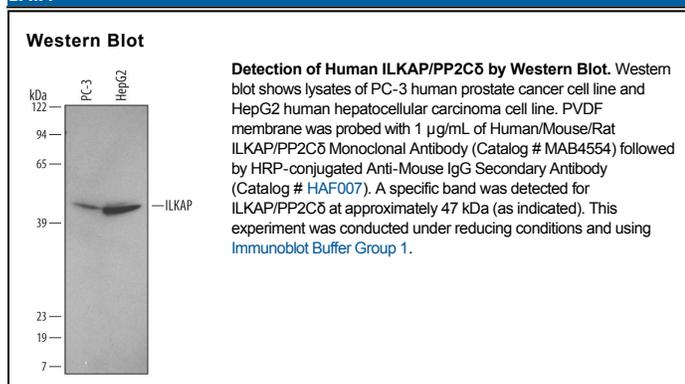
Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat ILKAP in Western blots. In Western blots, this antibody does not cross-react with recombinant human PP2C α , PP2C β or PPC2 γ .
Source	Monoclonal Mouse IgG _{2B} Clone # 499526
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human ILKAP Met1-His392 Accession # Q9H0C8
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m 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 μ g/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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. <ul style="list-style-type: none"> ● 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

Integrin Linked Kinase 1 Associated Phosphatase (ILKAP), also called PP2C δ , is a serine/threonine phosphatase that is stimulated by manganese but inhibited by magnesium ions and is insensitive to the phosphatase inhibitor okadaic acid. It binds to ILK1 and dephosphorylates it, decreasing the stimulation of the GSK-3 β 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 liver, and skeletal and cardiac muscle. Its gene is found in a region of chromosome 2 that is frequently deleted in oral cancers.