

DESCRIPTION

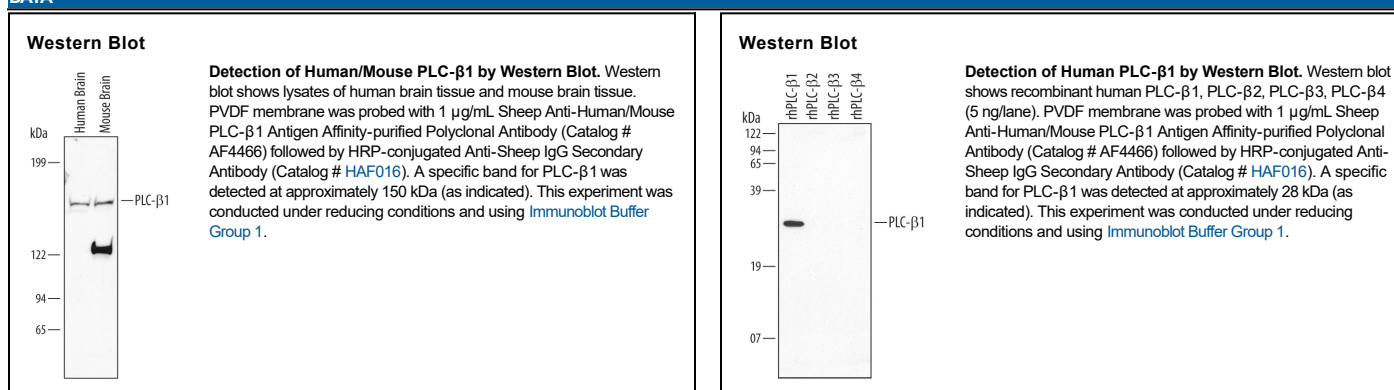
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse PLC-β1, but does not detect recombinant human (rh) PLC-β2, rhPLC-β3, or rhPLC-β4 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PLC-β1 Lys27-Met245 Accession # Q9NQ66
Formulation	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.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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

The Phospholipase C family consists of 13 isozymes within six subfamilies, PLC-δ, -β, -γ, -ε, -ζ, and -η. PLC-β1 (Phospholipase C beta-1) is a G-protein dependent phosphodiesterase that catalyzes the generation of inositol 1, 4, 5-trisphosphate (IP3) and diacylglycerol (DAG) from phosphatidylinositol 4, 5-bisphosphate (IP2), an essential step in the intracellular transduction of many extracellular signals. Alternative splicing results in two transcript variants encoding two isoforms, PLC-β1A and PLC-β1B. PLC-β1A is preferentially expressed in the cytosol, while PLC-β1B is predominantly expressed in the nucleus. The region used as immunogen is 100% identical in both isoforms.