

Human/Mouse PLC-β1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF4466

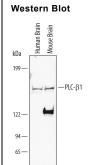
DESCRIPTION				
Species Reactivity	Human/Mouse			
Specificity	Detects human and mouse PLC-β1, but does not detect recombinant human (rh) PLC-β2, rhPLC-β3, or rhPLC-β4 in Western blots.			
Source	Polyclonal Sheep IgG			
Purification	Antigen Affinity-purified			
Immunogen	E. coli-derived recombinant human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

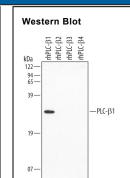
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human/Mouse PLC-β1 by Western Blot. Western blot shows lysates of human brain tissue and mouse brain tissue. PVDF membrane was probed with 1 μg/mL Sheep Anti-Human/Mouse PLC-β1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4466) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band for PLC-β1 was detected at approximately 150 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of Human PLC- $\beta1$ by Western Blot. Western blot shows recombinant human PLC- $\beta1$, PLC- $\beta2$, PLC- $\beta3$, PLC- $\beta4$ (5 ng/lane). PVDF membrane was probed with 1 μg/mL Sheep Anti-Human/Mouse PLC- $\beta1$ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4466) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band for PLC- $\beta1$ was detected at approximately 28 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREF	'AKA I	ION AN	אוצ עוו	IRAGE

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.

- 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- β 1 (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- β 1A and PLC- β 1B. PLC- β 1A is preferentially expressed in the cytosol, while PLC- β 1B is predominantly expressed in the nucleus. The region used as immunogen is 100% identical in both isoforms.

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