

DESCRIPTION

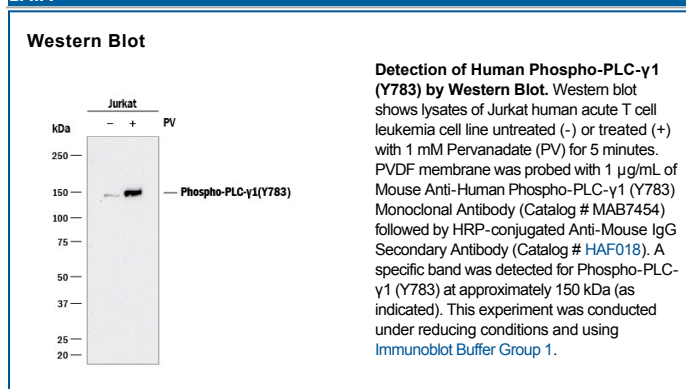
Species Reactivity	Human
Specificity	Detects human Phospho-PLC- γ 1 (Y783) in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 764518
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing the human PLC- γ 1 Y783 site
Formulation	Lyophilized 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	Sterile PBS to a final concentration of 0.5 mg/mL.
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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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

Phospholipase C gamma-1 (PLC- γ 1) is activated by receptor tyrosine kinases in response to growth factors and hormones. Activated PLC- γ 1 catalyzes the hydrolysis of phosphatidylinositol 4,5-bisphosphate to produce the second messengers inositol 1,4,5-triphosphate (IP₃) and diacylglycerol (DAG). IP₃ mobilizes the release of calcium while DAG activates protein kinase C. PLC- γ 1 plays an important role in regulating cell proliferation and differentiation.