

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat PI 3-Kinase p85 α in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 572106
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PI 3-Kinase p85 α aa Lys519-Gly644 Accession # P27986
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
Simple Western	10 μ g/mL	See Below

DATA

Western Blot

Detection of Human/Mouse/Rat PI 3-Kinase p85 α by Western Blot. Western blot shows lysates of A172 human glioblastoma cell line, K562 human chronic myelogenous leukemia cell line, BaF3 mouse pro-B cell line, and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 1 μ g/mL of Mouse Anti-Human/Mouse/Rat PI 3-Kinase p85 α Monoclonal Antibody (Catalog # MAB2998) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for PI 3-Kinase p85 α at approximately 85 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western

Detection of Human PI 3-Kinase p85 α by Simple Western™. Simple Western lane view shows lysates of A172 human glioblastoma cell line, loaded at 0.2 mg/mL. A specific band was detected for PI 3-Kinase p85 α at approximately 89 kDa (as indicated) using 10 μ g/mL of Mouse Anti-Human/Mouse/Rat PI 3-Kinase p85 α Monoclonal Antibody (Catalog # MAB2998). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system. Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.

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

PI 3-Kinases phosphorylate the inositol ring on a variety of membrane-associated phosphatidylinositols. Class I phosphoinositide 3-kinases (PI 3-Kinases) are heterodimeric proteins that consist of a catalytic subunit of 110-120 kDa and an associated regulatory subunit. p85 α is one of the regulatory subunits that associate with the class IA PI 3-Kinases. Composed of one SH3 and two SH2 domains, p85 α functions as an adaptor, coupling catalytic p110 to activated receptor tyrosine kinases.