

# Human/Mouse/Rat PI 3-Kinase p85α Antibody

Monoclonal Mouse  $IgG_{2B}$  Clone # 572106

Catalog Number: MAB2998

DESCRIPTION			
Species Reactivity	Human/Mouse/Rat		
Specificity	Detects human, mouse and rat PI 3-Kinase p85α in Western blots.		
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 572106		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	<i>E. coli</i> -derived recombinant human PI 3-Kinase p85α aa Lys519-Gly644 Accession # P27986		
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**

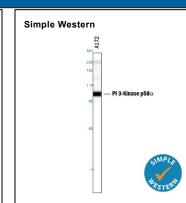
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Simple Western	10 μg/mL	See Below

### DATA

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Detection of Human/Mouse/Rat PI 3-Kinase p85α 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 µg/mL of Mouse Anti-Human/Mouse/Rat PI 3-Kinase p85α Monoclonal Antibody (Catalog # MAB2998) followed by HRPconjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for PI 3-Kinase p85α at approximately 85 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of Human PI 3-Kinase p85α by Simple Western T<sup>M</sup>. Simple Western Iane view shows lysates of A172 human glioblastoma cell line, loaded at 0.2 mg/mL. A specific band was detected for PI 3-Kinase p85α at approximately 89 kDa (as indicated) using 10 μg/mL of Mouse Anti-Human/Mouse/Rat PI 3-Kinase p85α 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

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- 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. p85α is one of the regulatory subunits that associate with the class IA PI 3-Kinases. Composed of one SH3 and two SH2 domains, p85α functions as an adaptor, coupling catalytic p110 to activated receptor tyrosine kinases.

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