

DESCRIPTION

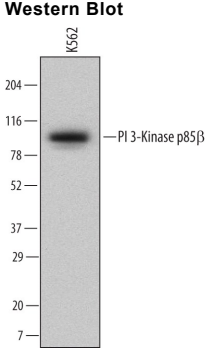
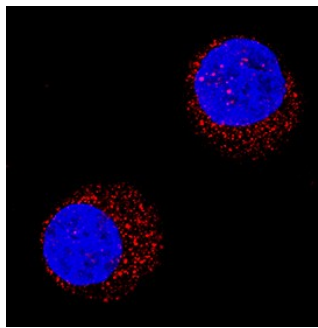
Species Reactivity	Human
Specificity	Detects human PI 3-Kinase p85 β in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) PI 3-Kinase p85 β (aa 325-428), rhPI 3-Kinase p85 α , rhPI 3-Kinase p87, rhPIK3R4, or rhPIK3R5 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 572001
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PI 3-Kinase p85 β Lys516-Gly642 Accession # O00459
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	2 μ g/mL	See Below
Immunocytochemistry	8-25 μ g/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human PI 3-Kinase p85β by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line. PVDF Membrane was probed with 2 μg/mL of Mouse Anti-Human PI 3-Kinase p85β Monoclonal Antibody (Catalog # MAB6777) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for PI 3-Kinase p85β at approximately 100 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>PI 3-Kinase p85β in K562 Human Cell Line. PI 3-Kinase p85β was detected in immersion fixed K562 human chronic myelogenous leukemia cell line using Mouse Anti-Human PI 3-Kinase p85β Monoclonal Antibody (Catalog # MAB6777) at 8 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>
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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	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

Phosphoinositide 3-kinase p85 beta subunit (PI 3-Kinase p85 β), also called regulatory subunit 2 (PIK3-R2) is an 85 kDa, 728 amino acid (aa) regulatory subunit of the PI3K complex. It shares ubiquitous expression and overlapping function with the p85 alpha subunit, but the two are differentially phosphorylated and may have different effects on apoptosis. Within aa 516-642, human p85 β shares 97%, 96% and 68% aa identity with mouse and rat p85 β and human p85 α , respectively. Full-length human p85 α and p85 β share 59% aa identity.