Human/Mouse/Rat PI 3-Kinase p55γ Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5734

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat PI 3-Kinase p55γ in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human PI 3-Kinase p55γ Lys251-Gly378 Accession # Q92569
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 as a 0.2 µm filtered solution in PBS.

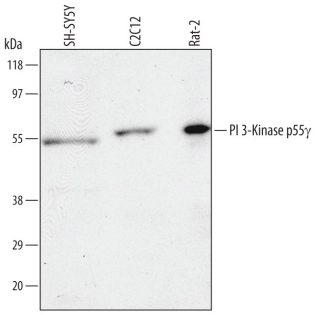
APPLICATIONS

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

Western Blot



Detection of Human/Mouse/Rat PI 3-Kinase p55γ by Western Blot. Western blot shows lysates of SH-SY5Y human neuroblastoma cell line, C2C12 mouse myoblast cell line, and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat PI 3-Kinase p55γ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5734) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for PI 3-Kinase p55 gamma at approximately 55 to 57 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

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

p55γ (Protein of 55 kDa, γ subunit; also PI 3-Kinase regulatory subunit γ and $p55^{PIK}$) is a 55-57 kDa member of the PI 3K p85 family of regulatory subunits. It is widely expressed and serves as a recruitment subunit for the p110 catalytic subunit of PI 3-Kinase. p55γ/$p55^{PIK}$ should not be confused with the 55 kDa alpha splice variant of the p85α gene (75% amino acid [aa] identity). Human p55γ is 461 aa in length and contains a unique 34 aa N-terminus that binds Rb and prevents cycle progression, followed by a Pro-rich region (aa 35-44) and two SH2 domains that bind the p110 catalytic subunit (aa 65-160 and 358-452).

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