

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat PI 3-Kinase p55y in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PI 3-Kinase p55y Lys251-Gly378 Accession # Q92569
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

p55y (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. p55y/p55^{PIK} should not be confused with the 55 kDa alpha splice variant of the p85α gene (75% amino acid [aa] identity). Human p55y 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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