

Human/Mouse/Rat PI 3-Kinase p55y Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse $\lg G_{2B}$ Clone # 668619

Catalog Number: FAB6638N

100 µg

DESCRIPTION	
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat PI 3-Kinase p55γ in Western blots. In direct ELISAs, less than 10% cross-reactivity with recombinant human (rh) PIK3R1 (aa 519-644) and no cross-reactivity with rhPIK3R1 (aa 328-431), rhPIK3R2 (aa 325-428), rhPIK3R2 (aa
Source	Monoclonal Mouse IgG _{2B} Clone # 668619
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human p55 γ Lys251-Gly378 Accession # Q92569
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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

p55 γ (Protein of 55 kDa, gamma subunit; also Pl3-kinase regulatory subunit gamma and p55PIK) is a 55-57 kDa member of the Pl3K p85 family of regulatory subunits. It is widely expressed, and serves as a recruitment subunit for the p110 catalytic subunit of PI3 kinase. p55 γ/p55PIK should not be confused with the 55 kDa alpha splice variant of the p85a gene (75% amino acid [aa] identity). Human p55 γ is 461 aa in length. It 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). Based on mouse, it is likely that alternate start sites at Met8 and Met32 generate 54 and 50 kDa protein products, respectively. There is also a potential for a start site 18 aa upstream of the standard start site, as well as a splice form that shows a deletion of aa 256-314 that may be accompanied by an additional deletion of aa 36-71. Over aa 251-378, human p55 y shares 94% aa identity with mouse p55 y.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Rev. 9/22/2025 Page 1 of 1

Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956