## RD SYSTEMS a biotechne brand

Monoclonal Mouse IgG<sub>2A</sub> Clone # 601214 Catalog Number: MAB6388

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human PIK3R5 in Western blots.
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 601214
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PIK3R5 Lys530-Pro726 Accession # Q8WYR1
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

	Recommended Sample Concentration
Western Blot	2 µg/mL See Below
	2 Pg/m2 Goo Doom
DATA	
Western Blot	
kDa 199 — PIK3R5 80 — S3 — Spliced Isoform 37 — 29 — 20 — Spliced Isoform	Detection of Human PIK3R5 by Western Blot. Western blot shows lysates of MDA-MB-468 human breast cancer cell line and HepG2 human hepatocellular carcinoma cell line. PVDF Membrane was probed with 2 µg/mL of Human PIK3R5 Monoclonal Antibody (Catalog # MAB6388) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). Specific bands were detected for PIK3R5 at approximately 97 kDa and the spliced isoform at approximately 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.
PREPARATION AND STOR	AGE
Reconstitution Ste	erile PBS to a final concentration of 0.5 mg/mL.
	ne product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. Imall pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage Us	<ul> <li>se a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Phosphoinositide 3-kinase regulatory subunit 5 (PIK3R5; also PI3-kinase p101 subunit, PtdIns-3-kinase p101, and p101-PI3K) is a 97 kDa regulatory subunit of the PI3K gamma complex. It is expressed as a heterodimer with the catalytic subunit PIK3CG/p120. Human PIK3R5 is 880 amino acids (aa) in length. The heterodimerization region is made up of aa 25-101, and aa 653-753 comprise the region for interaction with G beta gamma proteins. A second 55 kDa isoform is formed by the deletion of aa 1-386. Human PIK3R5 is 86% aa identical to mouse PIK3R5. PIK3R5 is highly expressed in leukocytes, followed by spleen, lymph node, thymus, and bone marrow.

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