**Human PI 3-Kinase p110γ Antibody**

**Monoclonal Rat IgG<sub>2A</sub> Clone # 304103**

**Catalog Number: MAB2999**

**DESCRIPTION**

**Species Reactivity**  
Human

**Specificity**  
Detects endogenous human PI 3-Kinase p110γ in Western blots.

**Source**  
Monoclonal Rat IgG<sub>2A</sub> Clone # 304103

**Purification**  
Protein A or G purified from hybridoma culture supernatant

**Immunogen**  
E. coli-derived recombinant human PI 3-Kinase p110γ  
Lys298-Leu467  
Accession # P48736

**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**

**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.

<table>
<thead>
<tr>
<th>Western Blot</th>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tr>
<td>1 μg/mL</td>
<td>See Below</td>
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**DATA**

**Western Blot**  
Detection of Human PI 3-Kinase p110γ by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line and Raji human Burkitt’s lymphoma cell line. PVDF membrane was probed with 1 μg/mL of Human PI 3-Kinase p110γ Monoclonal Antibody (Catalog # MAB2999) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for PI 3-Kinase p110γ at approximately 110 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**PREPARATION AND STORAGE**

**Reconstitution**  
Reconstitute at 0.5 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**

Class I phosphoinositide 3-kinases (PI 3-Kinases) are dual-specific lipid and protein kinases involved in numerous intracellular signaling pathways. Class IA PI 3-Kinases (p110α, β and δ) are typically activated through receptor tyrosine kinase signaling, whereas p110γ, the single member of class IB, is activated by seven-transmembrane G-protein-coupled receptors (GPCRs). While p110α and β are ubiquitiously expressed, expression of p110γ is mainly restricted to cells of the hematopoietic system.