

**PI3-kinase p110 subunit beta (N-term) Rabbit Monoclonal Antibody**  
**Product Data Sheet**

**Catalog # 1593-1**

**Clone ID:** Y384      **Lot #:** YC120607  
**Quantity:** 100 µl  
**Type:** Rabbit Monoclonal IgG  
**Species Cross-reactivity:**  Human  Mouse  Rat  
**Applications:**  WB  IHC  ICC  Flow Cytometry  IP  
**Molecular Wt.:** 110 kDa  
**UniProt ID:** P42338

**Background:** PI3-Kinases (PI3-Ks) are a family of lipid kinases that are implicated in signal transduction. PI3-K consists of two subunits; p85 and p10. The p85 subunit localizes PI3-K activity to the plasma membrane while the p110 subunit contains the catalytic domain of PI3-K (1-2). Four isoforms of p110 have been found; α, β, γ, and the δ subunit. The beta isoform forms heterodimers with p85 subunit (3). p110-beta has a role in regulating the formation and stability of integrin adhesion bonds (alpha-2B and beta-3), which are necessary for shear force-induced platelet activation (4).

**Specificity:** A synthetic peptide of human PI3-K p110 beta was used as an immunogen.

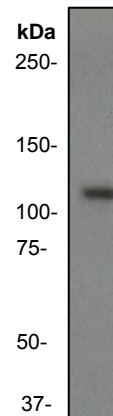
**Storage Conditions:** Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

**Recommended Dilutions:**

WB: 1:500  
Flow Cytometry: 1:40  
IP: 1:50

**Background References:**

1. Otsu, M., Hiles, I. D., Gout, I., Fry, M. J., Ruiz-Larrea, F., Panayatou, G., Thompson, A., Dhand, R., Hsuan, J., Totty, N., Smith, A. D., Morgan, S. J., Courtidge, S. A., Parker, P. J., and Waterfield, M. D. (1992) *Cell* 65, 91-104
2. Hiles, I. D., Otsu, M., Volinia, S., Fry, M. J., Gout, I., Dhand, R., Panayatou, G., Ruiz-Larrea, F., Thompson, A., Totty, N. F., Hsuan, J. J., Courtidge, S. A., Parker, P. J., and Waterfield, M. D. (1991) *Cell* 70, 419-429
3. Hu, P., Mondino, A., Skolnik, E. Y., and Schlessinger, J. (1993) *Mol. Cell. Biol.* 13, 7677-7688
4. Jackson et al. *Nature Med.* 11: 507-514, 2005.



**Fig 1.** Western blot analysis on Jurkat cell lysate using anti-PI3-kinase p110 subunit beta (N-term) RabMAb (cat. # 1593-1), dilution 1:500.

Product QC'd by: \_\_\_\_\_

**For research use only. Not for use in diagnostic or therapeutic applications.**

*This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit [www.epitomics.com](http://www.epitomics.com).*

**Epitomics, Inc., 863 Mitten Road, Suite 103 Burlingame, California 94010-1303**

Rev. A/04-05/JS