

PI3-kinase, p85 α Monoclonal Antibody (AB6)

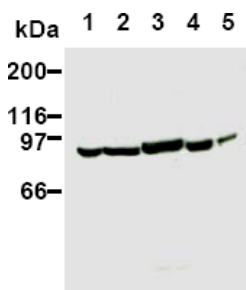
Product Specifications	
Catalog Number:	KAM-PI200
Host:	Mouse
Isotype:	IgG _{1κ}
Species Reactivity:	Human, mouse, and rat
Applications: <i>The optimal dilution for a specific application must be determined by the investigator</i>	WB: 1 μ g/mL (ECL) ICC: 10 μ g/mL IP: 5-10 μ g/mL (per 100 μ g cell extract)
Predicted m.w:	~85 kDa
Concentration:	See product label
Purification:	Protein A Affinity
Format:	PBS, 50% glycerol, pH 7.2
Storage: <i>Shipping conditions may differ from the recommended storage temperature</i>	Store at -20°C
Immunogen:	Recombinant human p85 α protein
Related Products:	
900-162	Akt1,2 (phospho-Ser473) EIA Kit
905-773	Akt (phospho-Ser473) Polyclonal Antibody
KAP-PK007	Akt (phospho-Thr308) Polyclonal Antibody
905-755	Akt1,2 Polyclonal Antibody

Background:

Phosphatidylinositol 3-kinase is a lipid kinase that phosphorylates the inositol ring of phosphatidylinositol and related compounds at the 3' position. The products of these reactions are thought to serve as second messengers in signaling pathways including cell growth, cytoskeletal remodeling and the trafficking of intracellular organelles. There are four subgroups (Class IA, IB, II, III) of PI3-K with distinct structure and substrate specificity. Class IA PI3-K, which functions downstream of activated tyrosine kinases, are heterodimers composed of a p110 catalytic subunit (α , β , or γ) and a tightly associated regulatory subunit (p85 α , p55 α , p50 α , p85 β , or p55 γ). Each regulatory subunit interchangeably associates with different catalytic subunits and displays a unique tissue distribution. p85 α is the major regulatory subunit of class IA PI3-Ks in most types of cells, including immune cells.

References:

1. Takeuchi, K., *et al.* (2004) *J Biol Chem.* **279**, 892-900.
2. Takeuchi, K., *et al.* (2001) *J Biol Chem.* **276**, 26077-26083.
3. Takaishi, H., *et al.* (1999) *PNAS USA* **96**, 11836-11841.
4. Kobayashi, M., *et al.* (1999) *PNAS USA* **96**, 4874-4879.
5. Tobe, K., *et al.* (1995) *J Biol Chem.* **270**, 5698-5701.
6. Tanaka, S., *et al.* (1993) *Jpn J Cancer Res.* **84**, 279-289.



Western blot analysis of PI3 kinase expression in Jurkat (1), Raji (2), U937 (3), WR19L (4) and PC12 (5) using PI3-kinase, p85 α Monoclonal Antibody (AB6)