AB-PK894

PIK3CA-pY317 Antibody

Phosphosite-specific rabbit polyclonal antibody for PIK3CA. This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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Target Protein

Protein Name Long:	Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha isoform
Protein Alias:	EC 2.7.1.153; Phosphoinositide-3-kinase, catalytic, alpha polypeptide; PI3K; PI3K p110-alpha; PI3-kinase p110 alpha; PK3CA; PtdIns-3-kinase p110
UniProt ID:	P42336
Protein Molecular Mass:	124,284 Da (1,068 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PIK3CA
Antibody Immunogen Sequence:	ATP(pY)MNGC
Antibody Immunogen Description:	Corresponds to amino acid residues A314 to N319. The effect of Y317 phosphorylation is unclear. This is the major *in vivo* phosphorylation site in PIK3CA (≥23 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is highly conserved in vertebrates and also found in fish.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipep peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
Amount:	25 µg
Antibody Concentration:	0.5 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting | Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human | Mouse | Platypus | Chicken | Zebra fish