AB-PK873

Abl-pY393+pT394 Antibody

Phosphosite-specific rabbit polyclonal antibody for Abl (Abl1). This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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Target Protein

Protein Name Long:	Abelson murine leukemia viral oncogene homologue 1
Protein Alias:	Abelson murine leukemia viral oncogene 1; Abl; C-Abl; JTK7; P150; v-abl Abelson murine leukemia viral oncogene 1; ENSG00000097007; Q13688; Q13914; Q59FK4
UniProt ID:	P00519
Protein Molecular Mass:	124,955 Da (1149 AA; P00519-2); 122,873 Da (1130 AA; P00519)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human Abl
Antibody Immunogen Sequence:	GDT(pY)(pT)AHAGC
Antibody Immunogen Description:	Corresponds to amino acid residues G390 to G398. Y393 phosphorylation stimulates phosphotransferase activity. This phosphosite is located in the kinase activation loop between catalytic subdomains VII and VIII. Phosphorylation regulates cell growth. Y393 is the most frequently detected *in vivo* phosphosite in Abl1 by mass spectrometry (≥1684 reports) and T394 is the third most often observed phosphosite (≥477 reports). No protein kinases have been reported to phosphorylate T394, but it is likely that it becomes collatorally phosphorylated by kinases that target the Y393 site. The effect of this phosphorylation is unclear, but it is likely to be activatory for Abl1 phosphotransferase activity based on its location. Abl is known to be phosphorylated *in vitro* at Y393 by Abl1, Fyn, Hck, and Lyn.
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:	1 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 | Chimpanzee | Dog | Rat | Mouse | Platypus | Chicken | Fruit fly | Nematode worm