

AB-PK890

RIOK2-pS332+pS335+pS337 Antibody

Phosphosite-specific rabbit polyclonal antibody for RIOK2



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Target Protein

Protein Name Long:	Serine/threonine-protein kinase RIO2
Protein Alias:	EC 2.7.11.1; FLJ11159; Kinase RIOK2; RIO kinase 2
UniProt ID:	Q9BVS4
Protein Molecular Mass:	63,283 Da (552 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human RIOK2
Antibody Immunogen Sequence:	KEG(pS)EF(pS)F(pS)DGC
Antibody Immunogen Description:	Corresponds to amino acid residues K329 to G239. The effect of their phosphorylation on RIOK2 is unknown. S332+S335+S337 are the major <i>in vivo</i> sites of phosphorylation of RIOK2 from mass spectrometry studies (≥ 40 -, >37 -, and >50 -times, respectively). RIOK2 is known to be phosphorylated <i>in vitro</i> at S335 by Plk1 (PLK).
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 multipеп 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 μ g
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 $+4^{\circ}\text{C}$ 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 Rhesus Macaque Dog Rat Mouse

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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