AB-PK806

RSK1-pT573 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase RSK1 (RPS6KA1, p90RSK)

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

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Target Protein

Name Long:	Ribosomal S6 protein-serine kinase 1; Ribosomal protein S6 kinase alpha 2
Alias:	90 kDa ribosomal protein S6 kinase 1; HU-1; Kinase p90RSK1; KS6A1; KS6AA; MAPKAPK1A; P90RSK1; RPS6KA1; S6K-alpha 1; CCDS284.1; ENSG00000117676
UniProt ID:	Q15418
Sequence Predicted Mass (KDa):	83.932 (744 AA; Q15418-2); 82.723 (735 AA; Q15418); 81.147 (719 AA; Q15418-4); 72.698 (643 AA; Q15418-3)
Observed SDS-PAGE Mass (KDa):	82-92

Immunogen

Antibody Immunogen Source:	Human RSK1 (RPS6KA1, p90RSK) sequence peptide Cat. No.: PE-04AFQ90
Antibody Immunogen Sequence:	LLM(pT)PCY(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues L570 to Y576; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-573

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
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 each animal 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.This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	150203
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	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.

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Applications

Product Use:	Western blotting | Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other vertebrates; Phosphosite is highly conserved in diverse species
Antibody Positive Controls:	Medium immunoreactivity with immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Strong immunoreactivity of a target-sized protein by Western blotting in HeLa cells with phenylarsine oxide and vanadate treatment.
Overall Antibody Specificity:	Medium-High selectivity
Antibody Cross Reactivities:	Some cross-reactivities detected in HeLa cells, where phenylarsine oxide (PAO) treatment increased signals for 80 and 75 KDa proteins.