

AB-PK807

RSK1-pY220+pS221 Antibody

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



KINEXUS

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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-04AHT95
Antibody Immunogen Sequence:	KKA(pY)(pS)FCG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues K217 to G224; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII. These are two of the major in vivo phosphorylation sites in RSK1.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-220+Ser-221

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 multipепptide 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:	150106
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerazol
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 mammals
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 sea star oocytes and medium detection in Jurkat cells.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Almost no significant cross-reactivities detected in A431, HepG2 and Jurkat cells as well as sea star oocytes.

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

For more information on our products please visit www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)