

AB-PK515

Akt1-pT308 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase Akt1 (PKBa)



KINEXUS

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Target Protein

Name Long:	RAC-alpha serine/threonine-protein kinase
Alias:	AKT; Akt1; AKT1 kinase; C-AKT; Kinase Akt1; PKB; PKB-alpha; PRKBA; V-akt murine thymoma viral oncogene 1; Protein kinase B; RAC; RAC-alpha serine,threonine kinase; RAC-alpha serine/threonine kinase; RAC-PK-alpha; PKBA; hCG_96740; AKT1_NEW; AKT; MGC99656; CCDS9994; B0LPE5; B2RAM5; B3KVVH4; B3KXD7; B7Z5R1; Q9BV07; ENSG00000142208
UniProt ID:	P31749
Sequence Predicted Mass (kDa):	55.686 (480 AA; P31749); 48.347 (418 AA; P31749-2)
Observed SDS-PAGE Mass (kDa):	57-62

Immunogen

Antibody Immunogen Source:	Human Akt1 (PKBa) sequence peptide Cat. No.: PE-04AIE70
Antibody Immunogen Sequence:	TMK(pT)FCG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues T305 to G311; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-308

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:	141202
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 mammals; Phosphosite is highly conserved in mammals
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	Strong immunoreactivity on protein dot blots with recombinant human Akt2, but not Akt3. Prominent ~78 KDa immunoreactive proteins was evident in HepG2 and MCF7 cells and seastar oocytes. Approximately 130 and 140 KDa cross-reactive proteins were also detected in MCF7 and seastar 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)