

AB-PK530

AurKB-pS227 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase AurKB (Aurora B, AIM-1)



KINEXUS

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Target Protein

Name Long:	Aurora Kinase B (serine/threonine protein kinase 12)
Alias:	AIK2; AIM1; AIM-1; ARK2; AURKB; Aurora, IPL1-related kinase 2; Aurora-2; Aurora-B; STK12; AURKB; IPL1; STK12; STK5; CCDS11134.1; ENSG00000178999
UniProt ID:	Q96GD4
Sequence Predicted Mass (kDa):	39.467 (345 AA; Q96GD4-5); 39.311 (344 AA; Q96GD4); 35.302 (312 AA; Q96GD4-2); 34.760 (303 AA; Q96GD4-4); 16.211 (142 AA; Q96GD4-3)
Observed SDS-PAGE Mass (kDa):	35-45

Immunogen

Antibody Immunogen Source:	Human AurKB (Aurora B, AIM-1) sequence peptide Cat. No.: PE-04AAR95
Antibody Immunogen Sequence:	VAHAP(pS)L(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues V222 to L228; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-227

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 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 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:	141003
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
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium immunoreactivity of a target-sized protein by Western blotting in sea star oocyte.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	Weak immunoreactivity on protein dot blots with recombinant human AurKC, but no immunoreactivity with AurKA. No cross-reactive proteins detected in A549 and HeLa cells. A strong 36 KDa cross-reactive protein was detected in sea star oocytes, and a strong 28 KDa cross-reactive protein in Jurkat cells.

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)