

AB-PK529

AurKA-pT287+pT288 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase AurKA (Aurora A, AIK, STK15)



KINEXUS

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Target Protein

Name Long:	Aurora Kinase A (serine/threonine protein kinase 6)
Alias:	AIK; ARK1; AURKA; Aurora kinase A; Aurora, IPL1-related kinase 1; Aurora/IPL1-related kinase 1; Aurora-1; Aurora-A; Aurora-family kinase 1; STK7; BTAK; STK15; STK6; AURORA2; AurA; MGC34538; CCDS13451.1; ENSG00000087586
UniProt ID:	O14965
Sequence Predicted Mass (KDa):	45.809 (403 AA; O14965)
Observed SDS-PAGE Mass (KDa):	45-50

Immunogen

Antibody Immunogen Source:	Human AurKA (Aurora A, AIK, STK15) sequence peptide Cat. No.: PE-04AHD99
Antibody Immunogen Sequence:	RR(pT)(pT)LCG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues R285 to G291; 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:	Thr-287+Thr-288

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:	150205
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
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No immunoreactivity on protein dot blots with recombinant human AurKB or AurKC. No cross-reactive proteins detected in 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)