

AB-PK536

BARK1-pS670 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase BARK1 (GRK2, ADRBK1)

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
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Target Protein

Name Long:	Beta-adrenergic receptor kinase 1
Alias:	ADRBK1; Adrenergic, beta, receptor kinase 1; ARBK1; BARK; BARK1; Beta-adrenergic receptor kinase 1; Beta-ARK-1; EC 2.7.11.15; FLJ16718; G- protein coupled receptor kinase 2; Kinase GRK2
UniProt ID:	P25098
Sequence Predicted Mass (KDa):	79.574 (689 AA; P25098)
Observed SDS-PAGE Mass (KDa):	78-85

Immunogen

Antibody Immunogen Source:	Human BARK1 (GRK2, ADRBK1) sequence peptide Cat. No.: PE-04AIN95
Antibody Immunogen Sequence:	KPR(pS)PVV(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues K667 to V673; Near the C-terminus of the kinase
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-670

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:	0.5 mg/ml
Lot Number:	141024
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:	Very strong immunoreactivity of a target-sized protein by Western blotting in FBS-treated Jurkat cells and weakly in HeLa cells.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No medium to strong cross-reactivities with other proteins in Jurkat cells, HeLa cells, and 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)