

AB-PK855

WNK1-pS382 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase WNK1



KINEXUS

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Target Protein

Name Long:	Serine/threonine-protein kinase WNK1
Alias:	HSAN2; HSN2; KDP; KIAA0344; MGC163339; MGC163341; p65; PRKWNK1; Protein kinase with no lysine 1; Protein kinase, lysine-deficient 1; PSK; PHA2C; CCDS8506.1; ENSG00000060237
UniProt ID:	Q9H4A3
Sequence Predicted Mass (kDa):	299.725 (2833 AA; Q9H4A3-7); 279.713 (2642 AA; Q9H4A3-6); 279.538 (2634 AA; Q9H4A3-5); 250.794 (2382 AA; Q9H4A3); 225.560 (2135 AA; Q9H4A3-2); 206.646 (1975 AA; Q9H4A3-4)
Observed SDS-PAGE Mass (kDa):	190, 250-400

Immunogen

Antibody Immunogen Source:	Human WNK1 sequence peptide Cat. No.: PE-04ALK99
Antibody Immunogen Sequence:	FAK(pS)VIG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues F379 to G385; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-382

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:	141024
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; Phosphosite is highly conserved in mammals
Antibody Positive Controls:	Strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in MCF7 cells and 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)