

# AB-PK654

## HIPK1-pY352 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase HIPK1



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Homeodomain-interacting protein-serine kinase 1
<b>Alias:</b>	HIK1; Homeodomain interacting protein kinase 1; KIAA0630; MGC26642; MGC33446; MGC33548; Myak; Nbak2
<b>UniProt ID:</b>	Q86Z02
<b>Sequence Predicted Mass (KDa):</b>	130.843 (1210 AA; Q86Z02); 116.731 (1075 AA; Q86Z02-2); 89.481 (836 AA; Q86Z02-3); 87.302 (816 AA; Q86Z02-4)
<b>Observed SDS-PAGE Mass (KDa):</b>	125-135

### Immunogen

<b>Antibody Immunogen Source:</b>	Human HIPK1 sequence peptide Cat. No.: PE-04AKK95
<b>Antibody Immunogen Sequence:</b>	CST(pY)LQS(bA)C (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues C349 to S355; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII. This is the major in vivo phosphorylation site in HIPK1.
<b>Peptide Type:</b>	For phosphosite-specific recognition of target.
<b>Target Phosphosite:</b>	Tyr-352

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Ig Isotype Clone Lot:</b>	Immunoglobulin G
<b>Production Method:</b>	The immunizing peptide was produced by solid phase synthesis on a multipep 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.
<b>Antibody Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	150305
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
<b>Storage Conditions and Stability:</b>	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

<b>Product Use:</b>	Western blotting   Antibody microarrays
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human, mouse, rat and many other mammals; Phosphosite is highly conserved in mammals
<b>Antibody Positive Controls:</b>	Very strong immunoreactivity with immunogen peptide on dot blots.
<b>Detection by Immunoblotting in Cell/Tissue Lysates:</b>	Medium immunoreactivity of a target-sized protein by Western blotting in maturing, germinal vesicle positive, sea star oocytes.
<b>Overall Antibody Specificity:</b>	High selectivity
<b>Antibody Cross Reactivities:</b>	No significant cross-reactive proteins detected in T98G cells. Strong 40 and 46 KDa cross-reactive proteins were detected in MCF7 cells and strong 22 KDa cross-reactive proteins in HeLa 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](http://www.kinexusproducts.ca) or contact us at 1-866-KINEXUS(546-3987)