

# AB-PK733

## Nek2-pT170+pS171 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase Nek2



**KINEXUS**

Address: 8755 Ash Street, Suite 1  
Vancouver, British Columbia,  
Canada V6P 6T3

Email: [info@kinexus.ca](mailto:info@kinexus.ca)  
Phone: 604-323-2547

### Target Protein

<b>Name Long:</b>	NIMA (never-in-mitosis)-related protein-serine kinase 2
<b>Alias:</b>	HSPK 21; Kinase Nek2; NEK2A; NIMA (never in mitosis gene a)-related kinase 2; NimA-like protein kinase 1; NimA-related protein kinase 2; NLK1
<b>UniProt ID:</b>	P51955
<b>Sequence Predicted Mass (KDa):</b>	51.763 (445 AA; P51955); 50.909 (437 AA; P51955-4); 44.906 (384 AA; P51955-2); 37.956 (326 AA; P51955-3)
<b>Observed SDS-PAGE Mass (KDa):</b>	47-55

### Immunogen

<b>Antibody Immunogen Source:</b>	Human Nek2 sequence peptide Cat. No.: PE-04ABO90
<b>Antibody Immunogen Sequence:</b>	HD(pT)(pS)FAK(bA)C (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues H168 to K174; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
<b>Peptide Type:</b>	For phosphosite-specific recognition of target.
<b>Target Phosphosite:</b>	Thr-170+Ser-171

### 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>	0.3 mg/ml
<b>Lot Number:</b>	141017
<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 vertebrates; Phosphosite is highly conserved in diverse species

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)