

# AB-PK659

## IKKa-pT179+pS180 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase IKKa (IkBKA)



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Inhibitor of NF-kappa-B protein-serine kinase alpha (CHUK)
<b>Alias:</b>	CHUK; Conserved helix-loop-helix ubiquitous kinase; I kappa-B kinase alpha; IkappaB kinase; I-kappa-B kinase 1; IkBKA; IKK1; IKK-alpha; NFKBIKA
<b>UniProt ID:</b>	O15111
<b>Sequence Predicted Mass (KDa):</b>	84.640 (745 AA; O15111)
<b>Observed SDS-PAGE Mass (KDa):</b>	85-95

### Immunogen

<b>Antibody Immunogen Source:</b>	Human IKKa (IkBKA) sequence peptide Cat. No.: PE-04AMV99
<b>Antibody Immunogen Sequence:</b>	CC(pT)(pS)FVGT (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues C177 to T184; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
<b>Peptide Type:</b>	For phosphosite-specific recognition of target.
<b>Target Phosphosite:</b>	Thr-179+Ser-180

### 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 multipеп 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% Thimerazol
<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
<b>Antibody Positive Controls:</b>	Very strong immunoreactivity with immunogen peptide on dot blots.
<b>Detection by Immunoblotting in Cell/Tissue Lysates:</b>	Strong immunoreactivity of a target-sized protein by Western blotting in human lung. Medium-weak immunoreactivity of a target-sized protein by Western blotting in Jurkat, A431, A549, Hek293 and T98G cells.
<b>Overall Antibody Specificity:</b>	Medium-high selectivity
<b>Antibody Cross Reactivities:</b>	In A549 cells, EGF increases an 85 KDa immunoreactive protein (probably target) and EGF decreases 75 KDa immunoreactive protein. In HEK-293 cells, phenylarsine oxide (PAO) decreases 100, 80 + 35 KDa immunoreactive proteins; in HeLa cells, phenylarsine oxide (PAO) decreases 110 +80 KDa immunoreactive proteins; in Jurkat cells, phenylarsine oxide (PAO) decreases 110 + 75 KDa immunoreactive proteins.

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)