

# AB-PK681

## LIMK1-pT508 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase LIMK1



# KINEXUS

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### Target Protein

<b>Name Long:</b>	LIM domain kinase 1
<b>Alias:</b>	Kinase LIMK1; KIZ; KIZ-1; LIMK; LIMK-1; CCDS5563.1; P53667; Q75MU0; Q75MU4; ENSG00000106683
<b>UniProt ID:</b>	P53667
<b>Sequence Predicted Mass (KDa):</b>	72.585 (647 AA; P53667); 70.793 (633 AA; P53667-2); 68.729 (613 AA; P53667-4); 33.373 (305 AA; P53667-3)
<b>Observed SDS-PAGE Mass (KDa):</b>	72-78

### Immunogen

<b>Antibody Immunogen Source:</b>	Human LIMK1 sequence peptide Cat. No.: PE-04ANI99
<b>Antibody Immunogen Sequence:</b>	KRY(pT)VVG(bA)C (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues K505 to G511; In the protein kinase catalytic domain.
<b>Peptide Type:</b>	For phosphosite-specific recognition of target.
<b>Target Phosphosite:</b>	Thr-508

### 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 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 A549 and MCF7 cells, and medium detection in Jurkat and HepG2 cells.
<b>Overall Antibody Specificity:</b>	Medium- very high selectivity
<b>Antibody Cross Reactivities:</b>	No significant cross-reactive proteins detected in A549 cells and very little in HepG2 and MCF7 cells. In HEK-293 cells, phenylarsine oxide (PAO) decreased 100 + 80 KDa proteins; in Jurkat cells, PAO increased 50 + 60 KDa proteins, and PAO decreased 110 + 95 KDa proteins. In MCF7 cells, insulin increased detection of a 75 KDa protein. In sea star oocytes undergoing meiotic maturation, at least four strong cross-reactive proteins of ~90, ~140, ~200 and ~250 KDa were evident.

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)