

AB-PK921

ChaK1-pS1504 Antibody

Phosphosite-specific rabbit polyclonal antibody for CHAK1 (TRPM7)



KINEXUS

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Target Protein

Protein Name Long:	Transient receptor potential cation channel subfamily M member 7
Protein Alias:	EC 2.7.11.1; Long transient receptor potential channel 7; LTRPC7; TRPM7
UniProt ID:	Q96QT4
Protein Molecular Mass:	212,697 Da (1,865 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human ChaK1
Antibody Immunogen Sequence:	C(βA)RRP(pS)TED
Antibody Immunogen Description:	Corresponds to amino acid residues R1501 to D1507. The effect of S1504 phosphorylation is unclear. This is the major site of <i>in vivo</i> phosphorylation with ≥ 333 mass spectrometry reports recorded in PhosphoSitePlus.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	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 these animals 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.
Amount:	25 µg
Antibody Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	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.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Chimpanzee Dog Rat Mouse Platypus Chicken

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 <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987