AB-PK902

JNK2-pT183+pY185 Antibody

Phosphosite-specific rabbit polyclonal antibody for JNK2 (MAPK9). This phosphothreonine-site antibody is highly specific for phosphothreonine in the phosphosite.

Website: www.kinexus.ca
Email: info@kinexus.ca
Phone: 604-323-2547

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

Target Protein

Protein Name Long:	Jun N-terminus protein-serine kinase (stress-activated protein kinase (SAPK)) 2
Protein Alias:	c-Jun N-terminal kinase 2; JNK2alpha; JNK2-alpha-2; JNK2A; JNK2B; JNK2beta; JNK-55; Jun kinase; Kinase JNK2; MAPK9; MK09; p54a; PRKM9; Stress-activated protein kinase JNK2; JNK-55; SAPK1a; JNK2BETA; p54aSAPK; CCDS4453.1; ENSG00000050748
UniProt ID:	P45984
Protein Molecular Mass:	48,311 Da (424 AA; P45984-4); 48,139 Da (424 AA; P45984); 44,223 Da (382 AA; P45984-3); 44,051 Da (382 AA; P45984-2); 27,334 Da (242 AA; P45984-5)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human JNK2
Antibody Immunogen Sequence:	FMM(pT)P(pY)VV(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues F180 to V187. Phosphorylation of T183+Y185 increase the phosphotransferase activity of JNK2. These are the major *in vivo* phosphorylation sites in JNK2 (≥455 and ≥1477 reports, respectively, from high throughput mass spectrometry studies recorded in PhosphoSitePlus). JNK2 is known to be phosphorylated *in vitro* at T183 by MKK7, and at Y185 by MKK4, and RET.
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 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 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:	0.75 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 | Rhesus Macaque | Dog | Rat | Mouse | Platypus | Frog

This product is for *in vitro* research use only and is not intended for use in humans or animals.