AB-PK917

TrkB-pY706+pY707 Antibody

Phosphosite-specific rabbit polyclonal antibody for TrkB (NTRK2). This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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:	BNDF/NT3/4/5 receptor- tyrosine kinase
Protein Alias:	GP145-TrkB; GP145-TrkB,GP95-TrkB; NTrk2; CCDS6671.1; ENSG00000148053
UniProt ID:	Q16620
Protein Molecular Mass:	93,826 Da (838 AA; Q16620-4); 91,999 Da (822 AA; Q16620); 81,569 Da (735 AA; Q16620-6); 60,994 Da (553 AA; Q16620-5); 59,167 Da (537 AA; Q16620-3); 53,051 Da (477 AA; Q16620-2); 35,332 Da (321 AA; Q16620-7)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human TrkB
Antibody Immunogen Sequence:	STD(pY)(pY)RVGGC
Antibody Immunogen Description:	Corresponds to amino acid residues S703 to G711. Y706 and Y707 phosphorylation stimulates phosphotransferase activity and induces interaction with PTP1B. These phosphosites are located in the kinase activation loop between catalytic subdomains VII and VIII. This are major sites of phosphorylation for TrkB based on ≥49 and ≥27 high throughput mass spectrometry reports, respectively, recorded in PhosphoSitePlus. TrkB is known to be phosphorylated at this site *in vitro* by Y706 at Y707 by Src, and TrkB (NTRK2).
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 | Chimpanzee | Rhesus Macaque | Dog | Rat | Mouse | Chicken | Frog | Zebra fish