

AB-PK838

TrkB-pY516 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase TrkB (NTRK2)



KINEXUS

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Target Protein

Name Long:	BNDF/NT3/4/5 receptor- tyrosine kinase
Alias:	GP145-TrkB; GP145-TrkB,GP95-TrkB; NTRK2; CCDS6671.1; ENSG00000148053
UniProt ID:	Q16620
Sequence Predicted Mass (KDa):	93.826 (838 AA; Q16620-4); 91.999 (822 AA; Q16620); 81.569 (735 AA; Q16620-6); 60.994 (553 AA; Q16620-5); 59.167 (537 AA; Q16620-3); 53.051 (477 AA; Q16620-2); 35.332 (321 AA; Q16620-7)
Observed SDS-PAGE Mass (KDa):	85-95

Immunogen

Antibody Immunogen Source:	Human TrkB (NTRK2) sequence peptide Cat. No.: PE-04AQD80
Antibody Immunogen Sequence:	NPQ(pY)FGI(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues N513 to I519; In the region between the transmembrane domain and the protein kinase catalytic domain
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-516

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
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 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.
Antibody Amount:	25 µg
Antibody Concentration:	0.75 mg/ml
Lot Number:	150305
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerazol
Storage Conditions and Stability:	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

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	Medium-High selectivity
Antibody Cross Reactivities:	Cross-reacts with prominent 37, 75-80, 130 and 160 KDa protein in sea star oocytes.

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 or contact us at 1-866-KINEXUS(546-3987)