

AB-PK612

EphB4-pY596 Antibody

Phosphosite-specific rabbit polyclonal antibody for EphB4



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Target Protein

Protein Name Long:	Ephrin type-B receptor 4 protein-tyrosine kinase
Protein Alias:	EPB4; EPH receptor B4; HTK; Mdk2; MYK1; Tyro11; Tyrosine-protein kinase receptor HTK
UniProt ID:	P54760
Protein Molecular Mass:	108.270 (987 AA; P54760); 55.975 (516 AA; P54760-2); 45.195 (414 AA; P54760-4); 33.342 (306 AA; P54760-3)

Immunogen

Antibody Immunogen Source:	Human EphB4 sequence peptide Cat. No.: PE-04AMB95
Antibody Immunogen Sequence:	PFT(pY)EDP(bA)C
Antibody Immunogen Description:	Corresponds to amino acid residues P593 to P599; in the EphA2_TM region between the transmembrane and kinase catalytic domains. Y596 phosphorylation stimulates phosphotransferase activity. This is one of the major <i>in vivo</i> phosphorylation sites for EphB4 (≥ 223 reports from high throughput mass spectrometry studies 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 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 μ g
Antibody Concentration:	0.08 mg/ml
Lot Numbers:	160301
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 $+4^{\circ}\text{C}$ 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 Rat Mouse Platypus Chicken Frog Zebra fish
Antibody Positive Control:	The observed molecular mass of the processed target protein on SDS-PAGE gels is reported to be around 100-110 kDa.
Antibody Specificity:	High-very high
Antibody Cross Reactivity:	No significant cross-reactive proteins detected in HeLa and MCF7 cells, except for a very strong ~40 kDa cross-reactive protein in both cells.

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