

AB-PK611

EphB3-pY600 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase EphB3



KINEXUS

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Target Protein

Name Long:	Ephrin type-B receptor 3 protein-tyrosine kinase
Alias:	CEK10; Developmental kinase 5; EPH receptor B3; Ephrin type-B receptor 3; ETK2; HEK2; Kinase EphB3; MDK5; SEK4; Tyrosine-protein kinase receptor MDK-5; TYRO6; CCDS3268.1; ENSG00000182580
UniProt ID:	P54753
Sequence Predicted Mass (kDa):	110.330 (998 AA; P54753)
Observed SDS-PAGE Mass (kDa):	105-115

Immunogen

Antibody Immunogen Source:	Human EphB3 sequence peptide Cat. No.: PE-04AMA99
Antibody Immunogen Sequence:	LQQ(pY)IAP(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues L597 to P603; In the EphA2_TM region between the transmembrane and kinase catalytic domains. This is the major in vivo phosphorylation site for EphB3.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-600

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:	1.0 / 0.75 mg/ml
Lot Number:	150305 / 160301
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
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:	High-very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in A431, HeLa, MCF7 and HepG2 cells, except for a very strong ~40 KDa cross-reactive protein in MCF7 and HepG2 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 www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)