

AB-PK606

EphA2-pY588 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase EphA2



KINEXUS

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

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

Target Protein

Name Long:	Ephrin type-A receptor 2 protein-tyrosine kinase
Alias:	ECK; EPH receptor A2; Epithelial cell kinase; Kinase EphA2; MPK-5; SEK2; SEK-2; Tyrosine-protein kinase receptor ECK; RCC2; CCDS169.1; ENSG00000142627
UniProt ID:	P29317
Sequence Predicted Mass (kDa):	108.266 (976 AA; P29317); 54.305 (497 AA; P29317-2)
Observed SDS-PAGE Mass (kDa):	115-130

Immunogen

Antibody Immunogen Source:	Human EphA2 sequence peptide Cat. No.: PE-04ALW99
Antibody Immunogen Sequence:	LKT(pY)VDP(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues L585 to P591; In the EphA2-TM domain located prior to the kinase catalytic domain. One of the major in vivo sites of phosphorylation in EphA2.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-588

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 multipепeptide 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 mg/ml
Lot Number:	141202
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; Phosphosite is highly conserved in mammals
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in HeLa cells, except for a weak ~75 kDa cross-reactive protein.

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)