

AB-PK605

EphA1-pY781 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase EphA1



KINEXUS

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Target Protein

Name Long:	Ephrin type-A receptor 1 protein-tyrosine kinase
Alias:	EPA1; EPH; EPH receptor A1; Ephrin type-A receptor 1; EPHT; EPHT1; MGC163163; Tyrosine-protein kinase receptor EPH; CCDS5884.1; P21709; A1L3V3; ENSG00000146904
UniProt ID:	P21709
Sequence Predicted Mass (KDa):	108.127 (976 AA; P21709); 52.618 (490 AA; P21709-2); 51.069 (474 AA; P21709-3)
Observed SDS-PAGE Mass (KDa):	95-105

Immunogen

Antibody Immunogen Source:	Human EphA1 sequence peptide Cat. No.: PE-04ALV80
Antibody Immunogen Sequence:	DGT(pY)ETQ(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues D778 to Q784; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-781

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 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 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:	150203
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
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium-strong immunoreactivity of a target-sized protein by Western blotting in HeLa cells.
Overall Antibody Specificity:	Medium selectivity
Antibody Cross Reactivities:	At least 7 other cross-reactive proteins detected in HeLa 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)