

AB-PK619

ErbB4-pY733 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase ErbB4 (HER4)



KINEXUS

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Target Protein

Name Long:	ErbB4 receptor-tyrosine kinase
Alias:	HER4; Kinase ErbB4; P180erbB4; P180-erbB4; V-erb-a erythroblastic leukemia viral oncogene 4; MGC138404; CCDS2394.1; ENSG00000178568
UniProt ID:	Q15303
Sequence Predicted Mass (kDa):	146.808 (1308 AA; Q15303); 145.578 (1298 AA; Q15303-2); 145.198 (1292 AA; Q15303-3); 143.968 (1282 AA; Q15303-4)
Observed SDS-PAGE Mass (kDa):	150-170

Immunogen

Antibody Immunogen Source:	Human ErbB4 (HER4) sequence peptide Cat. No.: PE-04AME99
Antibody Immunogen Sequence:	GTV(pY)KGI(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues G730 to I736; In the region between the transmembrane and kinase catalytic domains. The major in vivo site of phosphorylation in ErbB4.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-733

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:	0.5 / 1.0 mg/ml
Lot Number:	150305 / 160121
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.
Detection by Immunoblotting in Cell/Tissue Lysates:	Strong immunoreactivity of a target-sized protein by Western blotting in EGF-treated A431 cells (SDS-PAGE sample buffer homogenized).
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	No immunoreactivity on protein dot blots with recombinant human ErbB2. No significant cross-reactive proteins detected in A431, HeLa, MCF7 and T98G cells, except for strong ~50 KDa cross-reactive protein in T98G cells, and a ~44 KDa protein in A431 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)