

AB-PK600

EGFR-pY1110 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase EGFR (ErbB1)



KINEXUS

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Target Protein

Name Long:	Epidermal growth factor receptor-tyrosine kinase
Alias:	EGFR; Epidermal growth factor receptor; ErbB-1; ErbB, mENA; HER1; Receptor tyrosine-protein kinase ErbB-1; V-erb-b oncogene homologue; PIG61; CCDS5514.1; ENSG00000146648
UniProt ID:	P00533
Sequence Predicted Mass (kDa):	134.277 (1210 AA; P00533); 77.312 (705 AA; P00533-3); 69.228 (628 AA; P00533-4); 44.664 (405 AA; P00533-2)
Observed SDS-PAGE Mass (kDa):	160-180

Immunogen

Antibody Immunogen Source:	Human EGFR (ErbB1) sequence peptide Cat. No.: PE-04ALU99
Antibody Immunogen Sequence:	NPV(pY)HNQ(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues N1107 to Q1113; In the cytoplasmic region of the EGFR after the kinase catalytic domain. One of the major in vivo sites of phosphorylation in EGFR.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-1110

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:	0.2 / 1.0 mg/ml
Lot Number:	141202 / 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:	1 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 buffer extracted).
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in A431, HeLa and MCF7 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)