

# AB-PK601

## EGFR-pY1172 Antibody

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



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Epidermal growth factor receptor-tyrosine kinase
<b>Alias:</b>	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
<b>UniProt ID:</b>	P00533
<b>Sequence Predicted Mass (KDa):</b>	134.277 (1210 AA; P00533); 77.312 (705 AA; P00533-3); 69.228 (628 AA; P00533-4); 44.664 (405 AA; P00533-2)
<b>Observed SDS-PAGE Mass (KDa):</b>	160-180

### Immunogen

<b>Antibody Immunogen Source:</b>	Human EGFR (ErbB1) sequence peptide Cat. No.: PE-04AFX95
<b>Antibody Immunogen Sequence:</b>	NPD(pY)QQD(bA)C (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues N1169 to D1175; In the C-terminal of the kinase after the catalytic domain
<b>Peptide Type:</b>	For phosphosite-specific recognition of target.
<b>Target Phosphosite:</b>	Tyr-1172

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Ig Isotype Clone Lot:</b>	Immunoglobulin G
<b>Production Method:</b>	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.
<b>Antibody Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	150205
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
<b>Storage Conditions and Stability:</b>	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

<b>Product Use:</b>	Western blotting   Antibody microarrays
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human, mouse, rat and many other mammals
<b>Antibody Positive Controls:</b>	Very strong immunoreactivity with immunogen peptide on dot blots. Very strong immunoreactivity with recombinant human EGFR on protein dot blots.
<b>Detection by Immunoblotting in Cell/Tissue Lysates:</b>	Strong immunoreactivity of a target-sized protein by Western blotting in EGF-treated A431 cells (SDS-PAGE buffer extracted).
<b>Overall Antibody Specificity:</b>	Very high selectivity
<b>Antibody Cross Reactivities:</b>	Medium immunoreactivity on protein dot blots with recombinant human ErbB2, but not ErbB4. No significant cross-reactive proteins detected in A431, A549 and MCF7 cells, except for an EGF stimulated 75 KDa cross-reactive 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](http://www.kinexusproducts.ca) or contact us at 1-866-KINEXUS(546-3987)