

# AB-PK614

## ErbB2-pY735 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase ErbB2 (HER2, Neu)



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	ErbB2 (Neu) receptor-tyrosine kinase
<b>Alias:</b>	CD340; C-erbB-2; Epidermal growth factor receptor-related protein; ErbB2; HER2; HER-2; Kinase ErbB2; MLN 19; V-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian); TKR1; hCG_28177; ENSG00000141736; Q9NP09; Q9UK79
<b>UniProt ID:</b>	P04626
<b>Sequence Predicted Mass (KDa):</b>	137.910 (1255 AA; P04626); 136.501 (1240 AA; P04626-4); 134.856 (1225 AA; P04626-5); 97.382 (888 AA; P04626-6); 70.917 (645 AA; P04626-2); 62.568 (569 AA; P04626-3)
<b>Observed SDS-PAGE Mass (KDa):</b>	138, 175-200

### Immunogen

<b>Antibody Immunogen Source:</b>	Human ErbB2 (HER2, Neu) sequence peptide Cat. No.: PE-04AMC95
<b>Antibody Immunogen Sequence:</b>	GTV(pY)KGIW(bA)C (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues G732 to W739; In the region between the Transmembrane and kinase catalytic domains. One of the major in vivo sites of phosphorylation in ErbB2.
<b>Peptide Type:</b>	For phosphosite-specific recognition of target.
<b>Target Phosphosite:</b>	Tyr-735

### 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 multipепptide 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>	141204
<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>	Strong immunoreactivity with immunogen peptide on dot blots.
<b>Detection by Immunoblotting in Cell/Tissue Lysates:</b>	Weak immunoreactivity of a target-sized protein by Western blotting in A431 cells.
<b>Overall Antibody Specificity:</b>	High selectivity
<b>Antibody Cross Reactivities:</b>	No immunoreactivity on protein dot blots with recombinant human ErbB4. No significant cross-reactive proteins detected in A431 cells, except for weak ~75, 50 and 37 KDa cross-reactive proteins.

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)