

AB-PK613

ErbB2-pY1248 Antibody

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



KINEXUS

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Target Protein

Name Long:	ErbB2 (Neu) receptor-tyrosine kinase
Alias:	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
UniProt ID:	P04626
Sequence Predicted Mass (KDa):	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)
Observed SDS-PAGE Mass (KDa):	138, 175-200

Immunogen

Antibody Immunogen Source:	Human ErbB2 (HER2, Neu) sequence peptide Cat. No.: PE-04AFN99
Antibody Immunogen Sequence:	NPE(pY)LGL(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues N1245 to L1251; In the C-terminus of the kinase after the catalytic domain
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-1248

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% Thimerazol
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:	Medium immunoreactivity with immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium immunoreactivity of a target-sized protein by Western blotting in A431 and MCF7 cells.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	In HEK-293 cells, phenylarsine oxide (PAO) reduces 50 + 30 KDa proteins detection. In HeLa cells, phenylarsine oxide (PAO) increases 27 KDa protein immunoreactivity. In Jurkat cells, phenylarsine oxide (PAO) increases 15 KDa protein detection. In seastar oocytes, cross-reactivities are detected with phospho-ERK1 and phospho-CDK1.

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)