

AB-PK617

ErbB3-pY1307 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase ErbB3 (HER3)



KINEXUS

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Target Protein

Name Long:	ErbB3 (HER3) receptor-tyrosine kinase
Alias:	C-erbB3; ERB3; HER3; Kinase ErbB3; LCCS2; Receptor protein-tyrosine kinase erbB-3 precursor; Tyrosine kinase-type cell surface receptor HER3; V-erb-b2 erythroblastic leukemia viral oncogene 3; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1; MGC88033; c-erbB-3; p180-ErbB3; p45-sErbB3; p85-sErbB3; ENSG00000065361; O75810; O75811; O75812; O75813; Q9BUD7; Q9NNX2; Q9NNX3
UniProt ID:	P21860
Sequence Predicted Mass (KDa):	148.098 (1342 AA; P21860); 141.752 (1283 AA; P21860-4); 77.426 (699 AA; P21860-5); 36.490 (331 AA; P21860-3); 20.136 (183 AA; P21860-2)
Observed SDS-PAGE Mass (KDa):	160-200

Immunogen

Antibody Immunogen Source:	Human ErbB3 (HER3) sequence peptide Cat. No.: PE-04AMD95
Antibody Immunogen Sequence:	HVH(pY)ARL(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues H1304 to L1310; In the cytoplasmic region of ErbB3 near the C-terminus after the kinase catalytic domain. This is the major in vivo phosphorylation sites in ErbB3.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-1307

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 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.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	150305
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:	Weak immunoreactivity of a target-sized protein by Western blotting in A431 cells.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in A431, HepG2 and T98G cells, except for a ~52 KDa cross-reactive protein in HepG2 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)