

AB-PK663

InsR-pY1189 Antibody

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



KINEXUS

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Target Protein

Name Long:	Insulin receptor
Alias:	CD220; CD220 antigen; HHF5; Insulin receptor; IR; Kinase InsR
UniProt ID:	P06213
Sequence Predicted Mass (KDa):	156.333 (1382 AA; P06213); 155.146 (1370 AA; P06213-2)
Observed SDS-PAGE Mass (KDa):	90-100

Immunogen

Antibody Immunogen Source:	Human InsR (IR) sequence peptide Cat. No.: PE-04AKM99
Antibody Immunogen Sequence:	ETD(pY)YRK(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues E1186 to K1192; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-1189

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:	0.75 mg/ml
Lot Number:	141024
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:	Very weak immunoreactivity of a target-sized protein by Western blotting in Jurkat cells.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	Almost no cross-reactivities in HEK-293 and MCF7 cells, but phenylarsine oxide (PAO) decreased a 50 KDa protein in HEK-293. A ~200 KDa cross-reactive protein was detected in Jurkat 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)