

AB-PK952

InsR-pY1361 Antibody

Phosphosite-specific rabbit polyclonal antibody for InsR (IR). This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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Target Protein

Protein Name Long:	Insulin receptor / Insulin-like growth factor 1 receptor
Protein Alias:	CD220; CD220 antigen; HHF5; Insulin receptor; IR; Kinase InsR
UniProt ID:	P06213
Protein Molecular Mass:	156,333 Da (1382 AA; P06213); 155,146 Da (1370 AA; P06213-2)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human InsR
Antibody Immunogen Sequence:	EHIP(pY)THM(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues E1357 to M1364. Y1361 phosphorylation stimulates phosphotransferase activity. This is a minor <i>in vivo</i> phosphorylation site in the insulin receptor (≥ 20 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). InsR is known to be phosphorylated at this site <i>in vitro</i> by INSR.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multi-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 these animals 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.
Amount:	25 μ g
Antibody Concentration:	0.35 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at $+4^{\circ}\text{C}$ for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Dog Rat Mouse Frog Zebra fish

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 <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987