

# AB-PK951

## InsR-pY1185 Antibody

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

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### Target Protein

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

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human InsR
<b>Antibody Immunogen Sequence:</b>	TRDI(pY)ETD( $\beta$ A)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues T1181 to D1188. Y1185 phosphorylation stimulates phosphotransferase activity and molecular associations. It is a major site of phosphorylation ( $\geq 483$ reports by mass spectrometry in PhosphoSitePlus). InsR is known to be phosphorylated at this site <i>in vitro</i> by INSR, and Met.
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Isotype:</b>	IgG
<b>Production Method:</b>	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.
<b>Amount:</b>	25 $\mu$ g
<b>Antibody Concentration:</b>	0.4 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
<b>Storage Conditions:</b>	For long term storage, keep frozen at $-40^{\circ}\text{C}$ or lower. Stock solution can be kept at $+4^{\circ}\text{C}$ for more than 3 months. Avoid repeated freeze-thaw cycles.
<b>Storage Stability:</b>	$>2$ years

## Applications

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

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