

AB-PK910

PKR-pT451 Antibody

Phosphosite-specific rabbit polyclonal antibody for PKR1 (PRKR; EIF2AK2). This phosphothreonine-site antibody is highly specific for phosphothreonine.

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Target Protein

Protein Name Long:	Double-stranded RNA-dependent protein-serine kinase; Interferon-induced, double-stranded RNA-activated protein kinase
Protein Alias:	ADRB2; E2AK2; EIF2aK; EIF2AK1; EIF2AK2; Eukaryotic translation initiation factor 2-alpha kinase 2; Interferon-inducible RNA-dependent protein kinase; P1,eIF-2A protein kinase; TIK; MGC126524; ENSG00000055332
UniProt ID:	P19525
Protein Molecular Mass:	62,094 Da (551 AA; P19525); 57,391 Da (510 AA; P19525-2)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PKR
Antibody Immunogen Sequence:	CRSKG(pT)LRY
Antibody Immunogen Description:	Corresponds to amino acid residues R447 to Y454. T451 phosphorylation stimulates phosphotransferase activity. This is a minor <i>in vivo</i> phosphorylation sites in PKR1 (≥ 1 report from high throughput mass spectrometry studies recorded in PhosphoSitePlus). PKR1 is known to be phosphorylated at this site <i>in vitro</i> by ERK2 (MAPK1), p38a, PKR, and RSK2.
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 multipеп 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:	0.4 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°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 Chimpanzee Mouse

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