

AB-PN611

IWS1-S720+T721+T725 Antibody

Phosphosite-specific rabbit polyclonal antibody for IWS1



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Target Protein

Protein Name Long:	Protein IWS1 homologue
Protein Alias:	DKFZp761G0123; IWS1L; Protein IWS1 homolog; IWS1-like protein
UniProt ID:	Q96ST2
Protein Molecular Mass:	91,955 Da (819 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human IWS1
Antibody Immunogen Sequence:	RMN(pS)(pT)GGQ(pT)PRRC
Antibody Immunogen Description:	Corresponds to amino acid residues R717 to R728. S720 and T721 phosphorylation inhibit interactions with SPT6 and THOC4, and promote cell motility. The effects of T725 phosphorylation are unclear. These are three of the major <i>in vivo</i> phosphorylation sites in ITSN2 (≥ 804 , ≥ 83 and ≥ 253 reports, respectively, from high throughput mass spectrometry studies recorded in PhosphoSitePlus). IWS1 is known to be phosphorylated <i>in vitro</i> at S720 and T721 by Akt1, and Akt3.
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:	0.75 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerosal
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 Chimpanzee Rhesus macaque Dog Rat Mouse Platypus Chicken Frog

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