

AB-PN967

LRP4-pS1887 Antibody

Phosphosite-specific rabbit polyclonal antibody for LRP4 (LRP10; MEGF7). This phosphoserine-site antibody also cross-reacts with phosphothreonine, serine and glutamic acid substitutions in the phosphosite.

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Target Protein

Protein Name Long:	Low-density lipoprotein receptor-related protein 4
Protein Alias:	Leucine-rich repeat kinase 2; RIP7; PARK8; Dardarin; ROCO 2; RIPK7; augmented in rheumatoid arthritis 17
UniProt ID:	O75096
Protein Molecular Mass:	286,103 Da (2527 AA; Q5S007-1)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human LRP4
Antibody Immunogen Sequence:	ERRG(pS)LPD(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues E1883 to D1890. The effect of LRP4 Ser-1887 phosphorylation is unclear. This is the major <i>in vivo</i> phosphorylation site in LRP4 (≥ 29 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). LRP4 is known to be phosphorylated at this site <i>in vitro</i> by CaMK2a.
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 multipепptide 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% 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 Chimpanzee Rhesus Macaque Dog Rat 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