

AB-PN799

KOR1-pY369 Antibody

Phosphosite-specific rabbit polyclonal antibody for KOR-1 (MSL-1). This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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Target Protein

Protein Name Long:	Kappa-type opioid receptor
Protein Alias:	KOR; MSL-1; Opioid receptor, kappa 1; OPRK; OPRK1; Oprk1; ROR-D
UniProt ID:	P41145
Protein Molecular Mass:	42,645 Da (380 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human KOR1
Antibody Immunogen Sequence:	DPA(pY)LRD(β)C
Antibody Immunogen Description:	Corresponds to amino acid residues D366 to D372. Y369 phosphorylation (which is a serine residue in mouse) may lead to desensitization of the receptor to its agonist based on mouse studies. This is a minor <i>in vivo</i> phosphorylation site in KOR1 (1 report from high throughput mass spectrometry studies recorded in PhosphoSitePlus). KOR-1 is known to be phosphorylated at this site <i>in vitro</i> by BARK2 (GRK3 ADRBK2), GRK5 (GPRK5), and GRK6 (GPRK6).
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:	0.6 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°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 Chicken

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