

AB-PN580

CUX1-pS1270 Antibody

Phosphosite-specific rabbit polyclonal antibody for CUX1 (CUTL1). This phosphoserine-site antibody also cross-reacts with a phosphothreonine substitution in the phosphosite.

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Target Protein

Protein Name Long:	Homeobox protein cut-like 1
Protein Alias:	CASP; CCAAT displacement protein; CDP; CDP/Cut; CDP/Cux; CDP1; Clox; CUT; CUTL1; Cut-like 1; Cut-like homeobox 1; CUX; Cux/CDP; Golgi integral membrane protein 6; GOLIM6
UniProt ID:	P39880
Protein Molecular Mass:	164,273 Da (1505 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human CUX1
Antibody Immunogen Sequence:	KPYP(pS)PKT(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues K1266 to T1273. S1270 phosphorylation inhibits transcriptional activity by inhibiting DNA binding. This is one of the major <i>in vivo</i> phosphorylation sites in CUX1 (≥14 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). CUX1 is known to be phosphorylated at this site <i>in vitro</i> by CDK1 (CDC2), and PKACa (PRKACA).
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 µg
Antibody Concentration:	1 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 Rhesus macaque Rat Mouse 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