AB-PN635

NOLC1-pT607+pT610 Antibody

Phosphosite-specific rabbit polyclonal antibody for NOLC1

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Target Protein

Protein Name Long:	Nucleolar and coiled-body phosphoprotein 1
Protein Alias:	140 kDa nucleolar phosphoprotein; HCV NS5A trans-regulated protein 13; KIAA0035; NOPP130; Nopp140; Nucleolar 130 kDa protein; Nucleolar and coiled-body phosphoprotein 1; Nucleolar phosphoprotein p130; P130
UniProt ID:	Q14978
Protein Molecular Mass:	73,603 Da (699 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human NOLC1
Antibody Immunogen Sequence:	KLQ(pT)PN(pT)FPK
Antibody Immunogen Description:	Corresponds to amino acid residues K604 to K613. The effects of T607 and T610 phosphorylation are unclear. These are two of the major *in vivo* phosphorylation sites in NOLC1 (≥102 and ≥101 reports, respectively, from high throughput mass spectrometry studies recorded in PhosphoSitePlus). NOLC1 is known to be phosphorylated *in vitro* at T607 and T610 by CDK1 (CDC2).
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 multipep 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 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 | Dog | Rat | Mouse | Zebra fish

This product is for *in vitro* research use only and is not intended for use in humans or animals.