

AB-PN628

Myc-pT58+pS62 Antibody

Phosphosite-specific rabbit polyclonal antibody for Myc (c-Myc)



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Target Protein

Protein Name Long:	Myc proto-oncogene protein
Protein Alias:	BHLHe39; C-Myc; C-myc; Transcription factor p64; V-myc myelocytomatosis viral oncogene; V-myc myelocytomatosis viral oncogene homolog (avian)
UniProt ID:	P01106
Protein Molecular Mass:	48,804 Da (439 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human Myc
Antibody Immunogen Sequence:	ELL(pT)PPL(pS)PSR(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues E54 to R65. T58 and S62 phosphorylation induces transcriptional activation and binding to AurA, CDC73, CIP2A, DNA, FWXW7, PIN1, and SH2BP1 and Axin 2. T58 phosphorylation inhibits interaction with DNA, FBXW7 and TUBA4A. These are two of the major <i>in vivo</i> phosphorylation sites in mTOR (≥57 and ≥59 reports, respectively, from high throughput mass spectrometry studies recorded in PhosphoSitePlus). Myc is known to be phosphorylated <i>in vitro</i> at T58 by ERK2 (MAPK1), GSK3a, GSK3b, JNK3 (MAPK10), and at S62 by CDK5, ERK1 (MAPK3), ERK2 (MAPK1), JNK1 (MAPK8), JNK2 (MAPK9), JNK3 (MAPK10), mTOR (FRAP1), and Plk1.
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 µg
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 Chimpanzee Rhesus macaque Rat Mouse Chicken Frog Zebra fish

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