

AB-PN623

MEF2C-pS396 Antibody

Phosphosite-specific rabbit polyclonal antibody for MEF2C. This phosphoserine-site antibody also cross-reacts with a glutamic acid substitution in the phosphosite.

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Target Protein

Protein Name Long:	Myocyte-specific enhancer factor 2C
Protein Alias:	Myocyte-specific enhancer factor 2C; Myocyte-specific enhancer factor 2C; Myocyte-specific enhancer factor 2C
UniProt ID:	Q06413
Protein Molecular Mass:	51,221 Da (473 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human MEF2C
Antibody Immunogen Sequence:	SEPV(pS)PPRD(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues S392 to D400. S396 phosphorylation induces MEF2C transcriptional activity and facilitates its sumoylation at K391, which in turn recruits co-repressors to inhibit transcription. This is one of the less major <i>in vivo</i> phosphorylation sites in MEF2C (≥ 8 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). MEF2C is known to be phosphorylated at this site <i>in vitro</i> 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 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 Rhesus macaque Dog Rat Mouse Platypus Zebra fish Fruit fly

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