

# AB-PN625

## MEF2D-pS180 Antibody

Phosphosite-specific rabbit polyclonal antibody for MEF2D. This phosphoserine-site antibody also cross-reacts with phosphothreonine, phosphotyrosine, serine and glutamic acid substitutions.

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### Target Protein

<b>Protein Name Long:</b>	Myocyte-specific enhancer factor 2D
<b>Protein Alias:</b>	MEFD; myocyte enhancer factor 2D
<b>UniProt ID:</b>	Q14814
<b>Protein Molecular Mass:</b>	55,938 Da (521 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human MEF2D
<b>Antibody Immunogen Sequence:</b>	PRL(pS)PQQ( $\beta$ A)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues P176 to Q183. S180 phosphorylation stimulates transcriptional activity. This is the major <i>in vivo</i> phosphorylation site in MEF2D ( $\geq 51$ reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). MEF2D is known to be phosphorylated at this site <i>in vitro</i> by ERK5 (MAPK7).
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Isotype:</b>	IgG
<b>Production Method:</b>	The immunizing peptide was produced by solid phase synthesis on a multipеп 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.
<b>Amount:</b>	25 $\mu$ g
<b>Antibody Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
<b>Storage Conditions:</b>	For long term storage, keep frozen at $-40^{\circ}\text{C}$ or lower. Stock solution can be kept at $+4^{\circ}\text{C}$ for more than 3 months. Avoid repeated freeze-thaw cycles.
<b>Storage Stability:</b>	$>2$ years

## Applications

<b>Product Use:</b>	Western blotting   Antibody microarray
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human   Chimpanzee   Rat   Mouse   Platypus   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