

AB-PN662

SOX9-pS181 Antibody

Phosphosite-specific rabbit polyclonal antibody for SOX9. This phosphoserine-site antibody also cross-reacts with a serine substitution in the phosphosite.

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Target Protein

Protein Name Long:	Transcription factor SOX-9; SRY (sex determining region Y)-box 9
Protein Alias:	CMD1; CMPD1; SRA1; SRY (sex determining region Y)-box 9
UniProt ID:	P48436
Protein Molecular Mass:	56,137 Da (509 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human SOX9
Antibody Immunogen Sequence:	RRRK(pS)VKNGC
Antibody Immunogen Description:	Corresponds to amino acid residues R175 to G185. S181 phosphorylation stimulates transcriptional activity by increasing SOX9's DNA binding and transcriptional activation, and regulates cytoskeletal reorganization, intracellular location and molecular association, including inducing interaction with KPNB1. This is a minor site of <i>in vivo</i> phosphorylation of SOX9 (≥20 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). SOX9 is known to be phosphorylated at this site <i>in vitro</i> by PKACa (PRKACA), and ROCK1 (ROK-beta).
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:	1 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 Rhesus Macaque 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