

AB-PN986

Shc1-pY427 Antibody

Phosphosite-specific rabbit polyclonal antibody for Shc1 (Shc). This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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Target Protein

Protein Name Long:	SHC (Src homology 2 domain containing) transforming protein 1
Protein Alias:	SHC (Src homology 2 domain containing) transforming protein 1; Src homology 2 domain-containing-transforming protein C1
UniProt ID:	P29353
Protein Molecular Mass:	62,822 Da (583 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human Shc1
Antibody Immunogen Sequence:	DDPS(pY)VNV(β)C
Antibody Immunogen Description:	Corresponds to amino acid residues D423 to V430. Shc1 Y427 phosphorylation inhibits interaction with PPP2CA, and regulates cell growth, apoptosis, and cell motility. This is the major <i>in vivo</i> site for phosphorylation of Shc1 based on ≥ 2058 mass spectrometry reports recorded in PhosphoSitePlus. Shc1 is known to be phosphorylated at this site <i>in vitro</i> by EGFR, FAK (PTK2), Lck, Met (HGFR), PDGFRA, Src, and ZAP70.
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:	0.4 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 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