

AB-PN709

NF2-pS518 Antibody

Phosphosite-specific rabbit polyclonal antibody for NF2. This phosphoserine-site antibody is also weakly cross-reactive for phosphothreonine and glutamic acid substitutions in the phosphosite.

Website: www.kinexus.ca
Email: info@kinexus.ca
Phone: 604-323-2547



Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Target Protein

Protein Name Long:	Merlin
Protein Alias:	MERL; Moesin-ezrin-radixin-like protein; Neurofibromatosis-2; Neurofibromin 2; SCH; Schwannomerlin; Schwannomin
UniProt ID:	P35240
Protein Molecular Mass:	69,690 Da (595 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human NF2
Antibody Immunogen Sequence:	MKRL(pS)MEI(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues M514 to I521. S518 phosphorylation inhibits activity. Phosphorylation induces binding of Ezrin, Merlin and SPTAN1, and inhibits interaction with CD44, DDB1, Hrs, LIN28B, LRP6, Merlin, PIK3R2, SRc, TUBA4A and VPRBP. This is the major <i>in vivo</i> phosphorylation site in NF2 (≥37 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is highly conserved in vertebrates and also found in fish. NF2 is known to be phosphorylated at this site <i>in vitro</i> by PAK1, PAK2, and PKACa (PRKACA).
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 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.
Amount:	25 µg
Antibody Concentration:	0.9 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°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 Dog Rat Mouse Platypus 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