

AB-PN876

FUS-pS277 Antibody

Phosphosite-specific rabbit polyclonal antibody for FUS



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Target Protein

Protein Name Long:	RNA-binding protein FUS
Protein Alias:	75 kDa DNA-pairing protein; ALS6; FUS1; Fusion (involved in t (12; Fusion, derived from t(12;16) malignant liposarcoma; Heterogeneous nuclear ribonucleoprotein P2; Oncogene FUS; Oncogene TLS; POMp75; TLS; Translocated in liposarcoma; Translocated in liposarcoma protein
UniProt ID:	P35637
Protein Molecular Mass:	53,426 Da. (526 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human FUS
Antibody Immunogen Sequence:	RHD(pS)EQD(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues R274 to D280. S277 inhibits interaction with hnRNP P2. This is a minor <i>in vivo</i> site of phosphorylation with ≥10 mass spectrometry reports recorded in PhosphoSitePlus. FUS is known to be phosphorylated at this site <i>in vitro</i> by CK1d.
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 multipep 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:	0.5 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 Rat Mouse Platypus

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