

AB-PN674

TDP-43-pS409+pS410 Antibody

Phosphosite-specific rabbit polyclonal antibody for TDP-43 (TARDBP)



KINEXUS

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:	TAR DNA-binding protein 43
Protein Alias:	TADBP; TAR DNA binding protein; TDP43; TDP-43
UniProt ID:	Q13148
Protein Molecular Mass:	44,740 Da (414 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human TARDBP
Antibody Immunogen Sequence:	MDSK(pS)(pS)GWGC
Antibody Immunogen Description:	Corresponds to amino acid residues M405 to G413. S409+S410 phosphorylation inhibits interaction with TDP-43. These are minor sites of <i>in vivo</i> phosphorylation of TDP-43 based on ≥ 5 and ≥ 5 mass spectrometry reports recorded in PhosphoSitePlus. TDP-43 is known to be phosphorylated <i>in vitro</i> at S409 by CK1a1 (CSNK1A1), CK1d1 (CSNK1D), CK1e1 (CSNK1E), CK2a1 (CSNK2A1). S410: CK1a1 (CSNK1A1), CK1d1 (CSNK1D), CK1e1 (CSNK1E), and CK2a1 (CSNK2A1).
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 μ g
Antibody Concentration:	1 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 Rat Mouse Chicken 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