

# AB-PN913

## TDP-43-pS403+pS404 Antibody

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



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### Target Protein

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

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human TDP-43
<b>Antibody Immunogen Sequence:</b>	CGGFG(pS)(pS)MDS
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues G399 to S407. S403 and S404 phosphorylation inhibits RNA splicing and stability. These are minor sites of <i>in vivo</i> phosphorylation of TDP-43 based on $\geq 3$ and $\geq 2$ mass spectrometry reports, respectively recorded in PhosphoSitePlus. TDP-43 is known to be phosphorylated at this site <i>in vitro</i> by S403 and S404 by CK1a1 (CSNK1A1), and CK1d1 (CSNK1D).
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Isotype:</b>	IgG
<b>Production Method:</b>	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.
<b>Amount:</b>	25 $\mu$ g
<b>Antibody Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
<b>Storage Conditions:</b>	For long term storage, keep frozen at $-40^{\circ}\text{C}$ or lower. Stock solution can be kept at $+4^{\circ}\text{C}$ for more than 3 months. Avoid repeated freeze-thaw cycles.
<b>Storage Stability:</b>	>2 years

## Applications

<b>Product Use:</b>	Western blotting   Antibody microarray
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human   Chimpanzee   Rat   Mouse   Chicken   Zebra fish

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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