

Anti-human phosphoTDP43 Ser409/Ser410 mAb 2F11

Description:

TDP-43 (transactive response DNA binding protein of 43 kDa), encoded by the TARDBP gene, is a nuclear protein involved in RNA splicing, trafficking, stabilization, and gene expression regulation. In disease, TDP-43 is depleted from the nucleus, mislocalized to the cytoplasm, and accumulated in insoluble aggregates with multiple posttranslational modifications (such as ubiquitination, phosphorylation, and truncation) that may also contribute to neurotoxicity in TDP-43 proteinopathies. TDP-43 inclusion bodies are characteristic of amyotrophic lateral sclerosis (ALS) and certain forms of frontotemporal lobar degeneration (FTLD) and are also observed in Alzheimer's disease (AD) cases.

The clone 2F11 is a Monoclonal Mouse antibody against Human TDP43-Peptide phosphorylated at Ser409 and Ser410, TAR DNA-binding protein 54 (Uniprot: A0A0A0N0L3).

The antibody is produced exclusively from hybridoma and purified through one-step purification with Protein-A affinity chromatography.

Product-ID:	INV4000055
Clone:	2F11
Immunogen:	Animals were immunized with TDP43-Peptide phosphorylated at Ser409 and Ser410
Host:	Mouse
Clonality:	Monoclonal
Isotype:	IgG1k
Formulation:	Clear Liquid, PBS, pH 7.4
Concentration:	> 1.0 mg/ml
Purity:	> 95% by SDS-PAGE
Sizes available:	0.1 mg and 1.0 mg
Storage:	at - 20 °C (repeated thawing and freezing should be avoided)
Tested application(s):	ELISA, Western Blot, Immunohistochemistry

The product is for research use only and not for use in diagnostic or therapeutic procedures.

Literature:

[1] - de Boer EMJ, Orie VK, Williams T, Baker MR, De Oliveira HM, Polvikoski T, Silsby M, Menon P, van den Bos M, Halliday GM, van den Berg LH, Van Den Bosch L, van Damme P, Kiernan MC, van Es MA, Vucic S. TDP-43 proteinopathies: a new wave of neurodegenerative diseases. J Neurol Neurosurg Psychiatry. 2020 Nov 11;92(1):86–95. doi: 10.1136/jnnp-2020-322983. Epub ahead of print. PMID: 33177049; PMCID: PMC7803890.

[2] - Meneses A, Koga S, O'Leary J, Dickson DW, Bu G, Zhao N. TDP-43 Pathology in Alzheimer's Disease. Mol Neurodegener. 2021 Dec 20;16(1):84. doi: 10.1186/s13024-021-00503-x. PMID: 34930382; PMCID: PMC8691026.

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