

Store at
-20°C
#89789

TDP43 (D9R3L) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P, IF-F, IF-IC	H M R	Endogenous	35, 45	Rabbit IgG	#Q13148	23435

Product Usage Information

Application

Western Blotting
Immunohistochemistry (Paraffin)
Immunofluorescence (Frozen)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:200 - 1:800
1:50 - 1:200
1:50 - 1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier-free version of this product please see product #32654.

Specificity/Sensitivity

TDP43 (D9R3L) Rabbit mAb recognizes endogenous levels of total TDP43 protein. TDP43 undergoes alternative splicing. TDP43 (D9R3L) Rabbit mAb detects TDP43 isoforms that migrate at 25, 35, and 45 kDa.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly282 of human TDP43 protein.

Background

TDP43 (TAR DNA-binding protein 43) is involved in transcriptional regulation and exon splicing (1,2). While normal TDP43 is a nuclear protein, pathological TDP43 is a component of insoluble aggregates in patients with frontotemporal lobar degeneration (FTLD) and amyotrophic lateral sclerosis (ALS). In these disorders, TDP43 is abnormally ubiquitinated, phosphorylated, and cleaved to generate carboxy-terminal fragments that are sequestered as insoluble aggregates in neuronal nuclei, perikarya, and neurites (3,4). Additionally, TDP43 inhibits the expression of the *HIV-1* gene and regulates *CFTR* gene splicing (1,5).

Background References

1. Ou, S.H. et al. (1995) *J Virol* 69, 3584-96.
2. Winton, M.J. et al. (2008) *J Biol Chem* 283, 13302-9.
3. Neumann, M. et al. (2006) *Science* 314, 130-3.
4. Cairns, N.J. et al. (2007) *Am J Pathol* 171, 227-40.
5. Buratti, E. and Baralle, F.E. (2001) *J Biol Chem* 276, 36337-43.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin) **IF-F:** Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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