

#3449 Store at -20°C

TDP43 (A260) Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	45	Rabbit	#Q13148	23435

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	TDP43 (A260) Antibody detects endogenous levels of total TDP43 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala260 of human TDP43. Antibodies are purified by protein A and peptide affinity chromatography.	
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 <i>HIV-1</i> gene and regulates <i>CFTR</i> gene splicing (1,5).	
Background References	<ol style="list-style-type: none"> 1. Ou, S.H. et al. (1995) <i>J Virol</i> 69, 3584-96. 2. Winton, M.J. et al. (2008) <i>J Biol Chem</i> 283, 13302-9. 3. Neumann, M. et al. (2006) <i>Science</i> 314, 130-3. 4. Cairns, N.J. et al. (2007) <i>Am J Pathol</i> 171, 227-40. 5. Buratti, E. and Baralle, F.E. (2001) <i>J Biol Chem</i> 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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