3448 Store at -20C

TDP43 (G400) Antibody



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Applications: WB, IP, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 45	Source: Rabbit	UniProt ID: #Q13148	Entrez-Gene Id: 23435
Product Usage Information	Ар	plication				Dilution
	We	stern Blotting				1:1000
	Imr	nunoprecipitation				1:50
	Imr	munofluorescence (Immunocytochemis	stry)		1:100
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		TDP43 (G400) 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 Gly400 of human TDP43. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	norr with TDF that	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 Refe	2. W 3. N 4. C	 Ou, S.H. et al. (1995) J Virol 69, 3584-96. Winton, M.J. et al. (2008) J Biol Chem 283, 13302-9. Neumann, M. et al. (2006) Science 314, 130-3. Cairns, N.J. et al. (2007) Am J Pathol 171, 227-40. 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

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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