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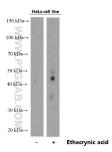
Phospho-TDP43 (Ser409/410) Monoclonal antibody Catalog Number:66318-1-lg 17 Publications

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Basic Information	Catalog Number: 66318-1-lg	GenBank Accession Number NM_007375	er: Purification Met Protein A purific		
	Size:	GenelD (NCBI):	CloneNo.:		
	1500 ug/ml	23435	1A2C1		
	Source: Mouse	UNIPROT ID: Q13148	Recommended WB 1:500-1:200		
	lsotype: lgG1	Full Name: TAR DNA binding protein			
		Calculated MW: 43 kDa			
		Observed MW:			
		45-50 kDa, 35 kDa			
Applications	Tested Applications: WB, ELISA		Positive Controls: WB : EA treated HeLa cells, HEK-293 cells, human placenta tissue, Neuro-2a cells, C6 cells		
	Cited Applications: WB, IHC, IF				
	Species Specificity: human, mouse, rat				
	Cited Species: human, mouse, rat, canine				
Background Information	The TARDBP gene encodes the TDP-43 protein, initially found to repress HIV-1 transcription by binding TAR DNA. TDP-43 has since been shown to bind RNA as well as DNA, and have multiple functions in transcriptional repression, translational regulation and pre-mRNA splicing. For instance, it is reported to regulate alternate splicing of the CTFR gene. In 2006 Neumann et al. found that hyperphosphorylated, ubiquitinated and/or cleaved forms of TDP-43, collectively known as pathological TDP-43, play a major role in the disease mechanisms of ubiquitin-positive, tau- and alpha-synuclein-negative frontotemporal dementia (FTLD-U) and in amyotrophic lateral sclerosis (ALS). Various forms of TDP-43 exist, including 18-35 kDa of cleaved C-terminal fragments, 45-50 kDa phospho-protein, 55 kDa glycosylated form, 75 kDa hyperphosphorylated form, and 90-300 kDa cross-linked form. (PMID: 17023659,19823856, 21666678, 22193176). 66318-1-1g is a phospho-dependent monoclonal antibody specifically recognizing phospho-TDP43 (409/410). It does not react with native TDP-43.				
Notable Publications	Author	Pubmed ID Journal		Application	
	Sadhana Ravikumar	34689831 Acta Neuro	opathol Commun	IHC	
	Yasar Arfat T Kasu	29987190 Mol Cell B	iol	WB,IF	
	David A Hicks	31280399 Neurochen	n Res	WB	
	Storage:				

For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Untreated and EA treated HeLa cells were subjected to SDS PAGE followed by western blot with 66318-1-lg (Phospho-TDP43 (Ser409/410) Antibody) at dilution of 1:850 incubated at room temperature for 1.5 hours.