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Phospho-TDP43 (Ser409/410) Monoclonal antibody

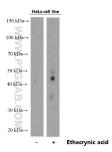
Catalog Number:66318-1-lg 13 Publications



Basic Information	Catalog Number: 66318-1-Ig	GenBank Act NM_007375	cession Number:		Purification Method: Protein A purification	
	Size: 1800 µg/ml	GenelD (NCE 23435	31):	CloneNo.: 1A2C1		
	Source: Mouse	UNIPROT ID: Q13148			ommended Dilutions: 1:500-1:2000	
	lsotype: lgG1	Full Name: TAR DNA bir	Full Name: TAR DNA binding protein			
	Calculated MW: 43 kDa					
		W: 5 kDa				
Applications	Tested Applications:		Positive Controls:			
	WB,ELISA Cited Applications: WB, IF, IHC		WB : EA treated HeLa cells, HEK-293 cells, human placenta tissue, Neuro-2a cells, C6 cells			
	Species Specificity: human, mouse, rat					
	Cited Species: human, rat, mouse, 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 CTFI 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). Variou 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 Neuropathol	Commun	Application IHC	
	Yasar Arfat T Kasu	29987190	Mol Cell Biol		WB,IF	
	David A Hicks	31280399	Neurochem Res		WB	
Storage	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage					

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.