## For Research Use Only

## Phospho-TDP43 (Ser409/410) Monoclonal antibody

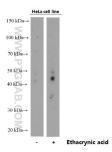
Catalog Number:66318-1-lg 13 Publications



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.