

For Research Use Only

Phospho-TDP43 (Ser409/410) Monoclonal antibody, PBS Only



Catalog Number: 66318-1-PBS

Basic Information

Catalog Number: 66318-1-PBS	GenBank Accession Number: NM_007375	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 23435	CloneNo.: 1A2C1
Source: Mouse	UNIPROT ID: Q13148	
Isotype: IgG1	Full Name: TAR DNA binding protein	
	Calculated MW: 43 kDa	
	Observed MW: 45-50 kDa, 35 kDa	

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse, rat

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 CTRF 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-Ig is a phospho-dependent monoclonal antibody specifically recognizing phospho-TDP43 (409/410). It does not react with native TDP-43.

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS only

For technical support and original validation data for this product please contact:

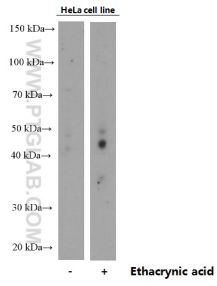
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Selected Validation Data



Untreated and EA treated HeLa cells were subjected to SDS PAGE followed by western blot with 66318-1-Ig (Phospho-TDP43 (Ser409/410) Antibody) at dilution of 1:850 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66318-1-PBS in a different storage buffer formulation.