

For Research Use Only

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



Catalog Number: 66318-1-PBS

Basic Information

Catalog Number:

66318-1-PBS

Size:

1 mg/ml

Source:

Mouse

Isotype:

IgG1

GenBank Accession Number:

NM_007375

GeneID (NCBI):

23435

UNIPROT ID:

Q13148

Full Name:

TAR DNA binding protein

Calculated MW:

43 kDa

Observed MW:

45-50 kDa, 35 kDa

Purification Method:

Protein A purification

CloneNo.:

1A2C1

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.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only

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

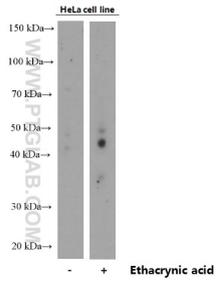
T: 4006900926

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-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.