For Research Use Only

Phospho-TDP43 (Ser409/410) Monoclonal antibody

Catalog Number:66318-1-lg 17 Publications



Basic Information

Catalog Number: GenBank Accession Number:

66318-1-lg NM_007375
Size: Genel D (NCBI):
100ul , Concentration: 1500 ug/ml by 23435

Nanodrop; UNIPROT ID:
Source: Q13148
Mouse Full Name:

Isotype: TAR DNA binding protein

IgG1 Calculated MW:

43 kDa Observed MW: 45-50 kDa, 35 kDa Purification Method:

1A2C1

Protein A purification CloneNo.:

Recommended Dilutions: WB 1:500-1:2000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity: human, mouse, rat Cited Species:

human, mouse, rat, canine

Positive Controls:

WB: EA treated HeLa cells, HEK-293 cells, human placenta tissue, Neuro-2a cells, C6 cells

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-lg 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	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

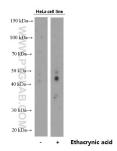
*** 20ul sizes contain 0.1% BSA

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.