For Research Use Only

TDP-43 (C-terminal) Monoclonal antibody

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Catalog Number:67345-1-Ig Featured Product 5 Publications

Basic Information

Catalog Number:
67345-1-Ig

Size:
2300 μg/ml

Source:
Mouse

Isotype:
IgG2a

GenBank Accession Number:
NM_007375

GeneID (NCBI):
23435

UNIPROT ID:
Q13148

Full Name:
TAR DNA binding protein

Calculated MW:
43 kDa

Observed MW:
43-45 kDa

Purification Method:
Protein A purification

CloneNo.:
1G5F6

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:2000-1:20000
IF 1:250-1:1000

Applications

Tested Applications:
FC, IF/ICC, IHC, WB, ELISA

Cited Applications:
WB, IF

Species Specificity:
Human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HEK-293 cells, HepG2 cells, Y79 cells, SH-SY5Y cells, Neuro-2a cells, PC-12 cells

IHC : mouse brain tissue, human gliomas tissue, rat brain tissue

IF : rat brain tissue,

Background Information

Transactivation response (TAR), DNA-binding protein of 43 kDa (also known as TARDBP or TDP-43), was first isolated as a transcriptional inactivator binding to the TAR DNA element of the HIV-1 virus. Neumann et al. (2006) found that a hyperphosphorylated, ubiquitinated, and cleaved form of TARDBP, known as pathologic TDP-43, is the major component of the tau-negative and ubiquitin-positive inclusions that characterize amyotrophic lateral sclerosis (ALS) and the most common pathological subtype of frontotemporal lobar degeneration (FTLD-U). 67345-1-Ig is a mouse monoclonal antibody raised against the C-terminal region of human TDP-43.

Notable Publications

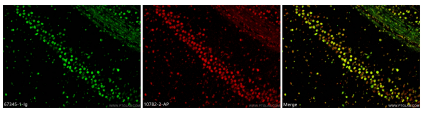
Author	Pubmed ID	Journal	Application
Joshua M Marcus	34082062	Neurochem Int	IF
Eva P Cuevas	35203594	Biomedicines	WB,IF
Emmanuelle C Genin	38583639	Neurobiol Dis	IF

Storage

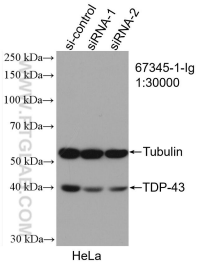
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

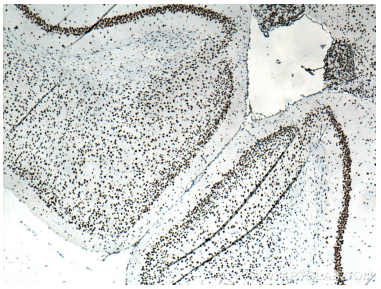
Selected Validation Data



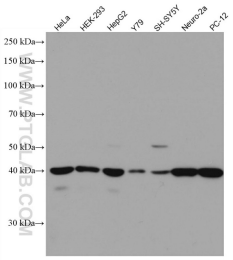
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using 67345-1-Ig (TDP-43 (C-terminal) antibody) at dilution of 1:500 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



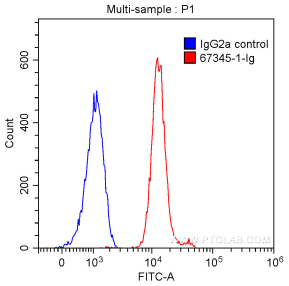
WB result of TDP-43 (C-terminal) antibody (67345-1-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TDP-43 (C-terminal) transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67345-1-Ig (TDP-43 (C-terminal) antibody) at dilution of 1:5000 (under 4x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 67345-1-Ig (TDP-43 (C-terminal) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1X10^6 HeLa cells were intracellularly stained with 0.20ug Anti-Human TDP-43 (C-terminal) (67345-1-Ig, Clone:1G5F6) (red) or 0.20 ug Mouse IgG2a Isotype Control(66360-2-Ig, CloneK11A1B2A2) (blue) and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000. Fixed with 90% MeOH.