

For Research Use Only

# TDP-43 (C-terminal) Monoclonal antibody

Catalog Number: 67345-1-Ig

Featured Product

7 Publications



## Basic Information

Catalog Number:

67345-1-Ig

Size:

150ul, Concentration: 2300 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

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-P 1:250-1:1000

## Applications

Tested Applications:

WB, IHC, IF-P, 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-P : 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
Jiyan An	39727843	Biosensors (Basel)	

## 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

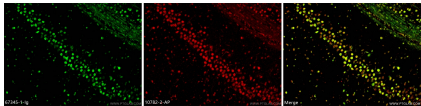
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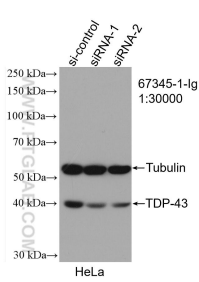
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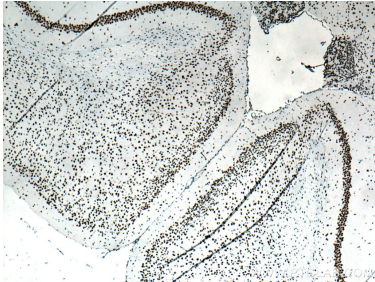
Selected Validation Data



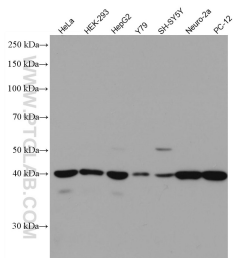
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using 67345-1-Ig (TDP-43 (C-terminal) antibody) at dilution of 1:500 and CoraLite488-Conjugated Goat Anti-Mouse IgG(H+L).



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.