

For Research Use Only

TDP-43 Monoclonal antibody

Catalog Number: 66734-1-Ig 4 Publications



Basic Information

Catalog Number: 66734-1-Ig	GenBank Accession Number: BC001487	Purification Method: Protein A purification
Size: 150ul , Concentration: 1500 µg/ml by Nanodrop and 848 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 23435	CloneNo.: 1G4F5
Source: Mouse	Full Name: TAR DNA binding protein	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000
Isotype: IgG1	Calculated MW: 43 kDa	
	Observed MW: 43 kDa	

Applications

Tested Applications:
FC, IHC, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
Human, Rat, Mouse

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, Jurkat cells, HSC-T6 cells, C6 cells, NIH/3T3 cells

IHC : mouse brain tissue, rat liver tissue, human gliomas 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). 66734-1-Ig is a mouse monoclonal antibody recognizing the intact protein of TDP-43.

Notable Publications

Author	Pubmed ID	Journal	Application
Phaneendra Chennampally	34518579	Sci Rep	IF
Rui Zhang	33613100	Int J Biol Sci	WB, IF
Alissa L Nana	30511086	Acta Neuropathol	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

*** 20ul sizes contain 0.1% BSA

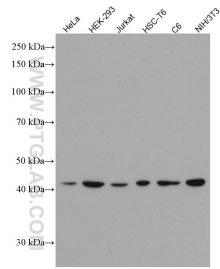
For technical support and original validation data for this product please contact:

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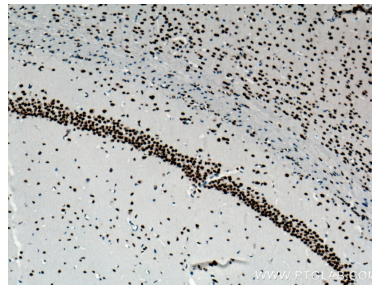
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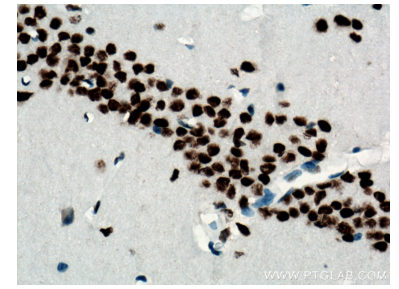
Selected Validation Data



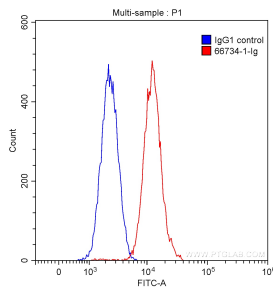
Various lysates were subjected to SDS PAGE followed by western blot with 66734-1-Ig (TDP-43 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66734-1-Ig (TDP-43 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66734-1-Ig (TDP-43 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ SH-SY5Y cells were intracellularly stained with 0.20 ug/test Anti-Human TDP-43 (66734-1-Ig, Clone:1G4F5) (red) or 0.20 ug control antibody (blue) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000. Fixed with 90% MeOH.