

TDP-43 Monoclonal antibody

 Catalog Number: 60019-1-Ig 6 Publications

Basic Information

Catalog Number: 60019-1-Ig	GenBank Accession Number: BC001487	Purification Method: Caprylic acid/ammonium sulfate precipitation
Size: 1000 µg/ml	GeneID (NCBI): 23435	CloneNo.: 5D5F11
Source: Mouse	UNIPROT ID: Q13148	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Isotype: IgG1	Full Name: TAR DNA binding protein	
Immunogen Catalog Number: AG1231	Calculated MW: 43 kDa	
	Observed MW: 50-60 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : human brain tissue, IHC : human prostate cancer tissue,
Cited Applications: WB, IF, IHC	
Species Specificity: human	
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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). 60019-1-Ig is a mouse monoclonal antibody recognizing the cleavage product of 20-30 kDa in addition to the native and phosphorylated forms of TDP-43. Immunohistochemical analyses of TDP-43 using this antibody detect both normal diffuse nuclear staining and insoluble inclusions in pathologic tissues. Notably this antibody only recognizes human TDP-43 but not reacts with mouse or rat TDP-43.

Notable Publications

Author	Pubmed ID	Journal	Application
Hosokawa Masato M	24066851	Int J Neurosci	
Alexander J Moszczynski	31703746	Acta Neuropathol Commun	IHC, IF
Guangbo Liu	31767634	Mol Cell Biol	WB

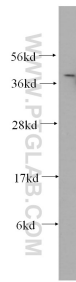
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
 Aliquoting is unnecessary for -20°C storage

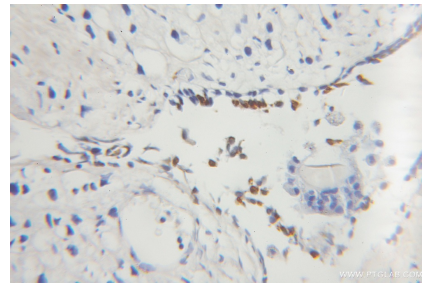
For technical support and original validation data for this product please contact:
 T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



human brain tissue were subjected to SDS PAGE followed by western blot with 60019-1-Ig (TARDBP antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 60019-1-Ig(TARDBP antibody) at dilution of 1:50 (under 25x lens).