

For Research Use Only

Phospho-TDP43 (Ser403/404) Monoclonal antibody



Catalog Number: 66079-1-Ig **9 Publications**

Basic Information

Catalog Number: 66079-1-Ig	GenBank Accession Number: NM_007375	Purification Method: Protein A purification
Size: 100ul, Concentration: 1000 µg/ml by Nanodrop and 671 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 23435	CloneNo.: 6B11B12
Source: Mouse	UNIPROT ID: Q13148	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG2a	Full Name: TAR DNA binding protein	
	Calculated MW: 43 kDa	
	Observed MW: 25 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HEK-293 cells, Jurkat cells, K-562 cells, RAW 264.7 cells, fetal human brain tissue
Cited Applications: WB, IF, IHC	
Species Specificity: human, mouse	
Cited Species: human, zebrafish	

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). 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). 66079-1-Ig is a mouse monoclonal antibody recognizing TDP-43 only when phosphorylated at 403/404. Immunohistochemical analyses using this antibody only stain the insoluble inclusions in pathologic tissues without normal diffuse nuclear staining.

Notable Publications

Author	Pubmed ID	Journal	Application
Janice S W Ng	31529970	Biochemistry	IF
Elisa Rojas-Prats	33139113	Eur J Med Chem	WB
Lara A Gruijs da Silva	36227481	Methods Mol Biol	WB

Storage

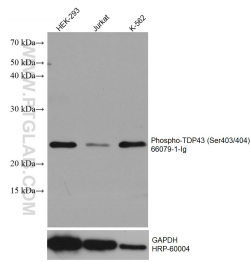
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

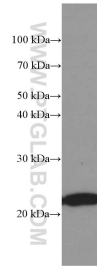
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Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 66079-1-Ig (Phospho-TDP43 (Ser403/404) antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



K-562 cells were subjected to SDS PAGE followed by western blot with 66079-1-Ig (Phospho-TDP43 (Ser403/404) Antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.