For Research Use Only TDP-43 (human antibody Catalog Number:60019-2-Ig		noclona	əl	Antibodies   ELISA kits   Proteins WWW.ptglab.com
Basic Information	Catalog Number: 60019-2-lg Size: 150ul , Concentration: 2000 ug/ml by Nanodrop and 912 ug/ml by Bradford method using BSA as the standard; Source: Mouse Isotype: IgG1			Purification Method: Protein G purification CloneNo.: 6H6E12 Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:5000-1:20000
Applications	Tested Applications: WB, IP, IHC, ELISA Cited Applications: WB, IHC, IP, CoIP Species Specificity: human Cited Species: human, yeast Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternation retrieval may be performed we buffer pH 6.0	vely, antigen	Positive Controls: WB : LNCaP cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells IP : K-562 cells, IHC : human gliomas tissue, human pancreas cancer tissue, human brain(FTLD-U) tissue	
Background Information	as a transcriptional inactivator bindir a hyperphosphorylated, ubiquitinated component of the tau-negative and u	ng to the TAR DNA elem d, and cleaved form of T biquitin-positive inclus rical subtype of frontote	ent of the HIV ARDBP, known ions that char mporal lobar	acterize amyotrophic lateral sclerosis 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). 60019-2-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 Nikita Fernandes 32992901 Biomolecules Deng Han-Xiang HX 21857683 Nature IHC Lynda Nwabuobi 31745474 Mov Disord Clin Pract IHC

## 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

## \*\*\* 20ul sizes contain 0.1% BSA

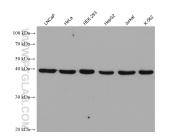
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

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

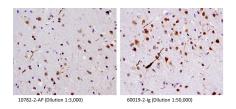
## Selected Validation Data



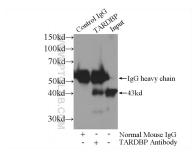
Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 60019-2-1g (TDP-43 (human specific) antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 60019-2-1g (TDP-43 (human specific) antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



40X of FTLD-U case stained by 10782-2-AP and 60019-2-1g, showing dystrophic neurites. (Figs were provided by Linda K. Kwong).



IP result of anti-TDP-43 (human specific) (IP:60019-2-Ig, 5ug; Detection:60019-2-Ig 1:1000) with K-562 cells lysate 1720ug.