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

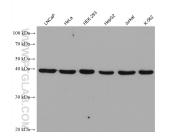
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

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

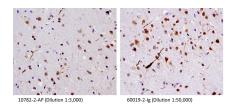
Selected Validation Data



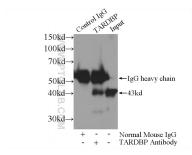
Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 60019-2-1g (TDP-43 (human specific) antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.