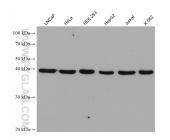
For Research Use Only TDP-43 (human antibody		Monoclo	onal p	Antibodies ELISA kits Proteins www.ptglab.com
Catalog Number:60019-2-lg	Featured Product	108 Publicati	ons	
Basic Information	Catalog Number: 60019-2-1g Concentration: 2000 ug/ml Source: Mouse Isotype: IgG1	GenBank Acces BC001487 GeneID (NCBI) 23435 UNIPROT ID: Q13148 Full Name: TAR DNA bindi Calculated MW 43 kDa Observed MW: 43 kDa	Prote Clone 6H6E Reco WB: 1 IP: 0.1 ing protein prote IHC: :	
Applications	Cited Applications:cells, JurkatWB, IHC, IP, ColPIP : K-562 ceSpecies Specificity:IHC : human			La cells, HEK-293 cells, HepG2 562 cells s tissue, human pancreas cancer [FTLD-U) 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). 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 only recognizes human TDP-43 but not reacts with mouse or rat TDP-43.			
Notable Publications	Author Nikita Fernandes Deng Han-Xiang HX	Pubmed ID 32992901 21857683	Journal Biomolecules Nature	Application
	Lynda Nwabuobi	31745474	Mov Disord Clin Pract	IHC
Storage	Storage: Store at -20°C. Stable for on Storage Buffer: PBS with 0.02% sodium azi Aliquoting is unnecessary f	de and 50% glycerol, pH7	7.3	

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

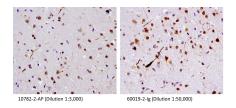
Selected Validation Data



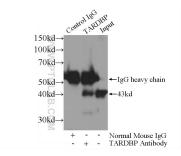
Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 60019-2-1g (TDP-43 (human specific) antibody) at dilution of 1:8500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.