For Research Use Only

TIA1 Monoclonal antibody

Catalog Number:68486-1-Ig

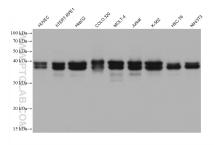


Basic Information	Catalog Number: 68486-1-Ig	GenBank Accession Num BC015944	ber:	Purification Method: Protein G purification				
	Size: 1000 ug/ml Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG2778	GeneID (NCBI): 7072 UNIPROT ID: P31483 Full Name: TIA1 cytotoxic granule-associated RNA binding protein Calculated MW: 214 aa, 24 kDa, 43 kDa		CloneNo.: 2C11F4				
				Recommended Dilutions: WB 1:5000-1:50000 IHC 1:250-1:1000				
					Observed MW: 38-40 kDa			
					Applications	WB, IHC, ELISA WB : HUV Species Specificity: COLO 32		ositive Con
		WB : HUVEC cells, hTERT-RPE1 cells, HepG2 cells, COLO 320 cells, MOLT-4 cells, Jurkat cells, K-562 cells HSC-T6 cells, NIH/3T3 cells						
		IC : mouse l ssue	mouse liver tissue, human urothelial carcinoma e					
Background Information	TIA1, also named as p40-TIA-1, is involved in alternative pre-RNA splicing and regulation of mRNA translation by binding to AU-rich elements (AREs) located in mRNA 3' untranslated regions (3' UTRs). It possesses nucleolytic activity against cytotoxic lymphocyte target cells. TIA1 may be involved in apoptosis. Two isoforms of this protein exist - 41kDa and 42kDa. one of these was a missense variant (P362L) in TIA1. Similar to the ALS-related disease proteins TDP-43, hnRNPA1, and FUS, TIA1 is an RNA-binding protein containing a prionlike LCD and assembles into membrane-less organelles, including SGs. Postmortem neuropathology of five TIA1 mutations carriers showed a consistent pathological signature with numerous round, hyaline, TAR DNA-binding protein 43 (TDP-43)-positive inclusions.TIA1mutations significantly increased the propensity of TIA1 protein to undergo phase transition. In live cells,TIA1mutations delayed stress granule (SG) disassembly and promoted the accumulation of non-dynamic SGs that harbored TDP-43.							
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and							
	Aliquoting is unnecessary for -20°C storage							

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

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

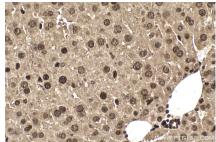
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68486-1-Ig (TIA1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



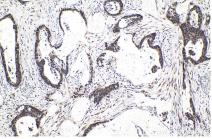
Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 68486-1-Ig (TIA1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



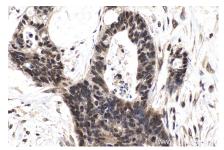
Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 68486-1-Ig (TIA1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human urothelial carcinoma tissue slide using 68486-1-Ig (TIA1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human urothelial carcinoma tissue slide using 68486-1-Ig (TIA1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human urothelial carcinoma tissue slide using 68486-1-1g (TIA1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).