For Research Use Only

CoraLite®555-conjugated TIA1 Polyclonal antibody Catalog Number:CL555-12133 Featured Product

Featured Product

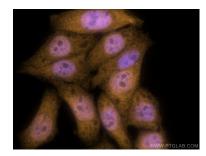
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Basic Information	Catalog Number: CL555-12133	GenBank Accession Number: BC015944	Purification Method: Antigen affinity purification	
	Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG2778	GeneID (NCBI): 7072	Recommended Dilutions: IF/ICC 1:300-1:1200	
		UNIPROT ID: P31483 Full Name: TIA1 cytotoxic granule-associated RNA binding protein	Excitation/Emission maxima wavelengths: 557 nm / 570nm	
				Calculated MW: 214 aa, 24 kDa, 43 kDa
		Observed MW: 40 kDa	t:	
		Applications	Tested Applications:	Positive Cor
IF/ICC IF/ICC : HepG2 cells, Species Specificity: human, mouse, rat				
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 TIA1mutations 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. Moreover, TDP-43 in SGs became less mobile and insoluble.			
Storage	Storage: Store at -20°C. Avoid exposure to light. Stable for one year after shipment. Storage Buffer: PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3. Aliquoting is unnecessary for -20°C storage			

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in 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



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Coralite®555 TIA1 antibody (CL555-12133) at dilution of 1:600.