For Research Use Only

CoraLite® Plus 488-conjugated TIA1 Recombinant antibody

Catalog Number: CL488-82672

Basic Information	Catalog Number: CL488-82672	GenBank Accession Number: BC015944	Purification Method: Protein A purification
	Size: 1000 µg/ml	GeneID (NCBI): 7072	CloneNo.: 3N22
	Source: Rabbit	UNIPROT ID: P31483	Recommended Dilutions: IF 1:200-1:800
	lsotype: IgG Immunogen Catalog Number: AG2778	Full Name: TIA1 cytotoxic granule-associated RNA binding protein Calculated MW: 214 aa, 24 kDa, 43 kDa	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
		Applications	
Background Informatior	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		
Storage	that harbored TDP-43. 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		

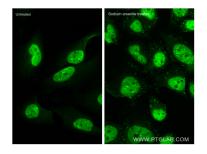
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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Antibodies | ELISA kits | Proteins

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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using CoraLite® Plus 488 TIA1 antibody (CL488-82672, Clone: 3N22) at dilution of 1:400.