For Research Use Only

CoraLite® Plus 488-conjugated TIA1 Recombinant antibody



Purification Method:

Catalog Number: CL488-82672

Basic Information

Catalog Number: GenBank Accession Number:

CL488-82672 BC015944 Protein A purification
Size: GeneID (NCBI): CloneNo.:

100ul , Concentration: 1000 µg/ml by 7072 3N22

Nanodrop; Full Name: Recommended Dilutions:

Source: TIA1 cytotoxic granule-associated IF 1:200-1:800
Rabbit RNA binding protein Excitation/Em

Rabbit RNA binding protein Excitation/Emission maxima
Isotype: Calculated MW: wavelengths:
IgG 214 aa, 24 kDa, 43 kDa 493 nm / 522 nm

Immunogen Catalog Number: Observed MW: AG2778 38-40 kDa

Applications

Tested Applications:

IF: sodium arsenite treated HeLa 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 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

Positive Controls:

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer

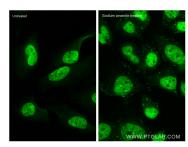
W: ptglab.com

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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.