

Nur für Forschungszwecke

# TIA1 Polyklonaler Antikörper

Katalog-Nr.:12133-2-AP

Vorgestelltes Produkt

44 Publikationen



## Allgemeine Informationen

<b>Katalog-Nr.:</b> 12133-2-AP	<b>GenBank-Zugangsnummer:</b> BC015944	<b>Reinigungsmethode:</b> Antigen-Affinitätsreinigung
<b>Größe:</b> 150ul, Konzentration: 700 µg/ml von Nanodrop;	<b>GeneID (NCBI):</b> 7072	<b>Empfohlene Verdünnungen:</b> WB 1:500-1:3000 IP 0.5-4.0 ug für IP und 1:500-1:1000 für WB
<b>Wirt:</b> Kaninchen	<b>Vollständiger Name:</b> TIA1 cytotoxic granule-associated RNA binding protein	<b>IHC 1:50-1:500</b> <b>IF 1:50-1:500</b>
<b>Isotyp:</b> IgG	<b>Berechnete Masse:</b> 214 aa, 24 kDa, 43 kDa	
<b>Immunogen Katalognummer:</b> AG2778	<b>Beobachtete Masse:</b> 40 kDa	

## Anwendungen

### Geprüfte Anwendungen:

IF, IHC, IP, WB, ELISA

### In Publikationen genannte Anwendungen:

ChIP, CoIP, IF, IHC, RIP, WB

### Getestete Reaktivität:

Human, Maus, Ratte

### Zitierte Arten:

Huhn, Human, Maus, Ratte

**Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

### Positivkontrollen:

**WB:** COLO 320-Zellen, Jurkat-Zellen, Mausmilzgewebe, Maus-Thymusgewebe, Raji-Zellen

**IP:** Jurkat-Zellen,

**IHC:** humanes Lymphomgewebe, Maushirngewebe

**IF:** L02-Zellen, HeLa-Zellen, HepG2-Zellen

## Hintergrundinformationen

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, hnRNP A1, 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. TIA1 mutations significantly increased the propensity of TIA1 protein to undergo phase transition. In live cells, TIA1 mutations 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.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Tao Wang	36151083	Nat Commun	IF
Li Wang	36255739	Hum Mol Genet	WB
Lei Chang	34647267	J Mol Neurosci	WB,IF

## Lagerung

### Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

### Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

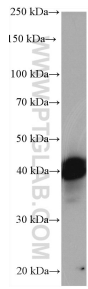
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com  
W: ptglab.com

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

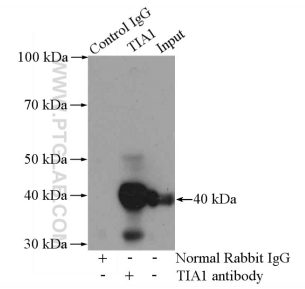
## Ausgewählte Validierungsdaten



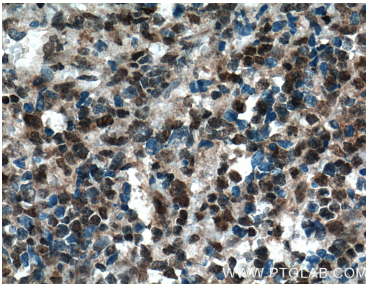
COLO 320 cells were subjected to SDS PAGE followed by western blot with 12133-2-AP (TIA1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



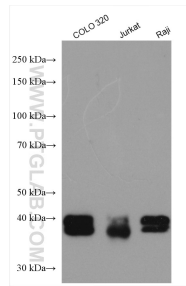
Immunofluorescent analysis of (4% PFA) fixed L02 cells using TIA1 antibody (12133-2-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), 594-CL594-Phalloidin (red).



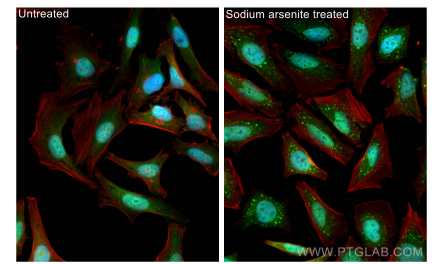
IP Result of anti-TIA1 (IP:12133-2-AP, 4ug; Detection:12133-2-AP 1:500) with Jurkat cells lysate 3200ug.



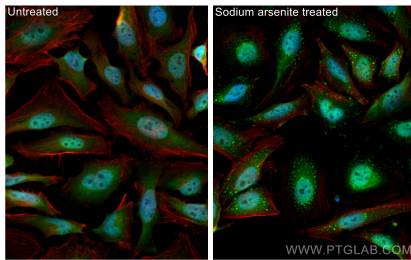
Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 12133-2-AP (TIA1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



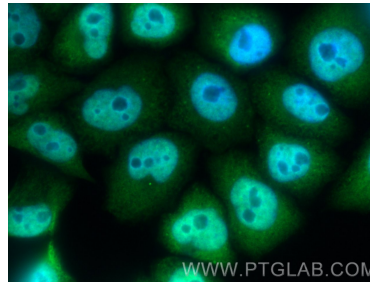
Various lysates were subjected to SDS PAGE followed by western blot with 12133-2-AP (TIA1 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



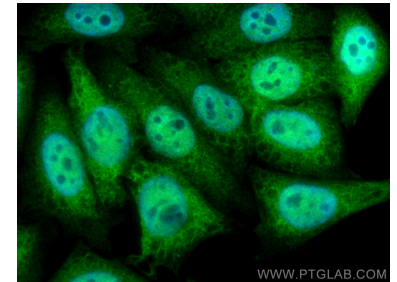
Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using TIA1 antibody (12133-2-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using TIA1 antibody (12133-2-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed L02 cells using TIA1 antibody (12133-2-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TIA1 antibody (12133-2-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).