

For Research Use Only

IHCeasy TIA1 Ready-To-Use IHC Kit

Catalog Number: KHC1578

General Information

Sample type: FFPE tissue Cited sample type: Reactivity: Human, Mouse, Rat **Cited Reactivity:**

Assay typ Immunohistochemistry Primary antibody type: Mouse Monoclonal Secondary antibody type: Polymer-HRP-Goat anti-Mouse

Kit Component

Size	Concentration
100 mL	50×
100 mL ×2	20×
5 mL	RTU
5 mL	RTU
5 mL	RTU
0.2 mL	RTU
4 mL	RTU
5 mL	RTU
5 mL	RTU
5 mL	RTU
1 slide (Optional)	FFPE
1 Сору	
1 Сору	
	100 mL 100 mL ×2 5 mL 5 mL 5 mL 0.2 mL 4 mL 5 mL 5 mL 5 mL 1 slide (Optional) 1 Copy

Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

Background

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. 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.

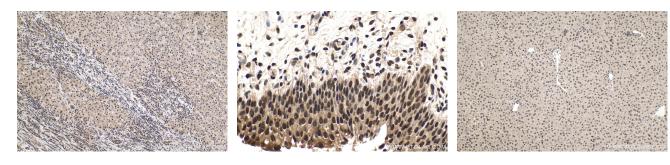
Synonyms

Nucleolysin TIA 1 isoform p40, p40 TIA 1, RNA binding protein TIA 1, TIA 1, TIA1

For technical support and original validation data for this product please contact: 1 (888) 4PTGLAB (1-888-478-4522) (toll E: proteintech@ptglab.com free in USA), or 1(312) 455-8498 (outside W: ptglab.com USA)

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

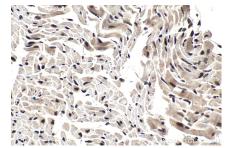
Selected Validation Data



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using KHC1578 (TIA1 IHC Kit).

Immunohistochemical analysis of paraffinembedded human urothelial carcinoma tissue slide using KHC1578 (TIA1 IHC Kit).

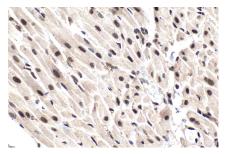
Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using KHC1578 (TIA1 IHC Kit).



Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using KHC1578 (TIA1 IHC Kit).



Immunohistochemical analysis of paraffinembedded rat liver tissue slide using KHC1578 (TIA1 IHC Kit).



Immunohistochemical analysis of paraffinembedded rat heart tissue slide using KHC1578 (TIA1 IHC Kit).