Product Name: KD-Validated TIA1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00863
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 43.0kDa

Antigen Information

Gene Name	TIA1
Alternative Names	TIA1; TIA1 Cytotoxic Granule Associated RNA Binding Protein; TIA-1; T-Cell-Restricted Intracellular Antigen-1; Cytotoxic Granule Associated RNA Binding Protein TIA1; Nucleolysin TIA-1 Isoform P40; TIA1 Cytotoxic Granule-Associated RNA-Binding Protein; P40-TIA-1 (Containing P15-TIA-1); RNA-Binding Protein TIA-1; P40-TIA-1; ALS26; WDM
Gene ID	7072.0
SwissProt ID	P31483
Immunogen	A synthesized peptide derived from human TIA1

Background

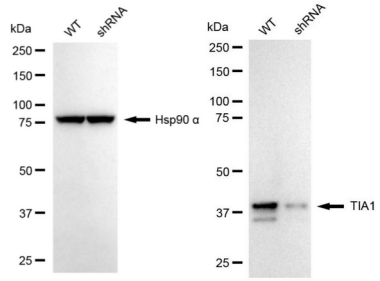
The product encoded by this gene is a member of a RNA-binding protein family and possesses nucleolytic activity against

cytotoxic lymphocyte (CTL) target cells. It has been suggested that this protein may be involved in the induction of apoptosis as it preferentially recognizes poly(A) homopolymers and induces DNA fragmentation in CTL targets. The major granule-associated species is a 15-kDa protein that is thought to be derived from the carboxyl terminus of the 40-kDa product by proteolytic processing. Alternative splicing resulting in different isoforms has been found for this gene. [provided by RefSeq, May 2017]

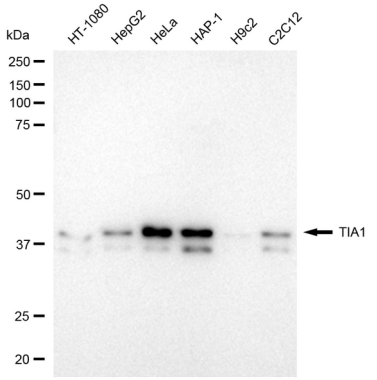
Research Area

Cell Biology,Immunology,Epigenetics and Nuclear Signaling,Cancer

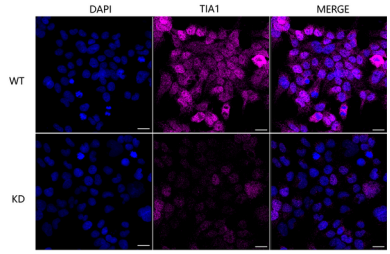
Image Data



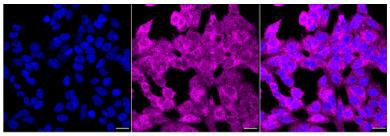
Western blotting analysis using TIA1 antibody (KVAb00863). TIA1 expression in wild-type (WT) and TIA1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with TIA1 antibody (KVAb00863, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



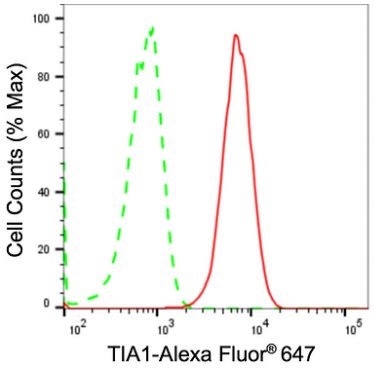
Western blotting analysis using TIA1 antibody (KVAb00863). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with TIA1 antibody (KVAb00863, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using TIA1 antibody (KVAb00863, 1:1,000), Top panel: wild-type (WT); Bottom panal: TIA1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; TIA1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HAP-1 cells with TIA1 antibody (KVAb00863, 1:1,000). Nuclei were stained blue with DAPI; TIA1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of TIA1 expression in HAP-1 cells using TIA1 antibody (KVAb00863, 1:2,000). Green, isotype control; red, TIA1.