

Product Name: KD-Validated Three Prime Repair Exonuclease 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAAb00855

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
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: 33.2kDa

Antigen Information

Gene Name	TREX1 TREX1; Three Prime Repair Exonuclease 1; DRN3; Three-Prime Repair Exonuclease 1; 3'-5'
Alternative Names	Exonuclease TREX1; Deoxyribonuclease III; DNase III; AGS1; Aicardi-Goutieres Syndrome 1; 3' Repair Exonuclease 1; EC 3.1.11.2; HERNS; RVCLS; CRV
Gene ID	11277.0
SwissProt ID	Q9NSU2
Immunogen	A synthesized peptide derived from human TREX1

Background

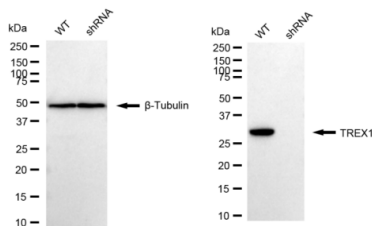
This gene encodes a nuclear protein with 3' exonuclease activity. The encoded protein may play a role in DNA repair and serve

as a proofreading function for DNA polymerase. Mutations in this gene result in Aicardi-Goutieres syndrome, chilblain lupus, Cree encephalitis, and other diseases of the immune system. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2012]

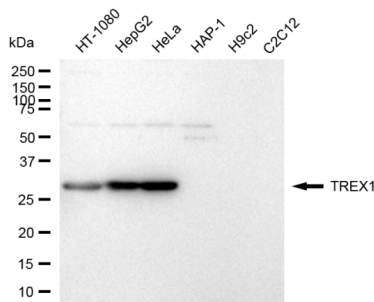
Research Area

Epigenetics and Nuclear Signaling, Immunology

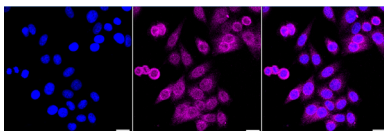
Image Data



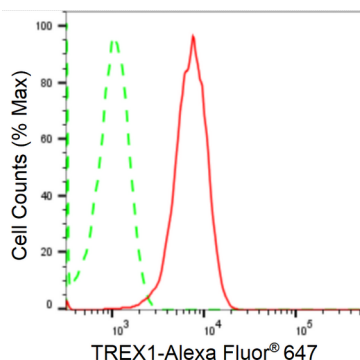
Western blotting analysis using TREX1 antibody (KVA00855). TREX1 expression in wild type (WT) and TREX1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with TREX1 antibody (KVA00855, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using TREX1 antibody (KVA00855). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with TREX1 antibody (KVA00855, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with TREX1 antibody (KVA00855, 1:1,000). Nuclei were stained blue with DAPI; TREX1 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 TREX1 expression in HepG2 cells using TREX1 antibody (KVA00855, 1:2,000). Green, isotype control; red, TREX1.