Datasheet for ABIN968709

anti-TREX1 antibody (AA 82-179)

1 Image | 2 Publications

Go to Product page

Overview

Quantity:	50 µg
Target:	TREX1
Binding Specificity:	AA 82-179
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TREX1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse TREX1 aa. 82-179
Clone:	29-TREX1
Isotype:	IgG1
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	TREX1
Alternative Name:	TREX1 (TREX1 Products)
Background:	DNA replication, repair, and recombination requires the excision of nucleotides from the DNA 3' termini. Many 3' to 5' exonucleases have been identified which catalyze the excision of monophosphates from the 3' termini of DNA. TREX1 and TREX2 are 3' to 5' exonucleases that contain three conserved exonuclease active site motifs (EASM) that may produce exonuclease activity. TREX1 and TREX2 are most closely related to the proofreading exonucleases of the bacterial replicative DNA polymerases and the RNase T enzymes. Recombinant expression of TREX1 and TREX2 demonstrates that they have exonuclease activity when oligonucleotide is present. TREX1 shows the greatest exonuclease activity with partial duplex DNA, and no activity with single-stranded RNA or an RNA-DNA partial duplex. In addition, reconstitution of TREX1 with DNA polymerase beta and DNA ligase III-XRCC1 facilitates accurate rejoining of a 3' mismatched base residue at a single-strand break. Thus, TREX1 and TREX2 are 3' to 5' exonucleases that may be important for excision of nucleotides during DNA replication, repair, and recombination.
Molecular Weight:	32 kDa
Pathways:	Apoptosis

Application Details

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

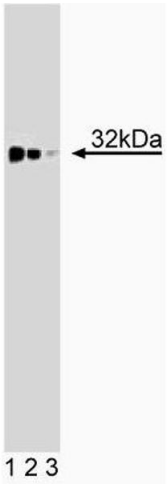
Publications

Product cited in:

Höss, Robins, Naven, Pappin, Sgouros, Lindahl: "A human DNA editing enzyme homologous to the Escherichia coli DnaQ/MutD protein." in: **The EMBO journal**, Vol. 18, Issue 13, pp. 3868-75, (1999) (PubMed).

Mazur, Perrino: "Identification and expression of the TREX1 and TREX2 cDNA sequences encoding mammalian 3'-->5' exonucleases." in: **The Journal of biological chemistry**, Vol. 274, Issue 28, pp. 19655-60, (1999) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of TREX1 on a BC3H1 cell lysate (Mouse brain smooth muscle-like cells, ATCC CRL-1443). Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1: 10,000 dilution of the mouse anti-mouse TREX1 antibody.