

Datasheet for ABIN7172071  
**anti-TREX1 antibody (AA 1-270)**

## 3 Images

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## Overview

Quantity:	100 µL
Target:	TREX1
Binding Specificity:	AA 1-270
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TREX1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP)

## Product Details

Immunogen:	Recombinant Human Three-prime repair exonuclease 1 protein (1-270AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

## Target Details

Target:	TREX1
Alternative Name:	TREX1 ( <a href="#">TREX1 Products</a> )
Background:	Background: Major cellular 3'→5' DNA exonuclease which digests single-stranded DNA (ssDNA) and double-stranded DNA (dsDNA) with mismatched 3' termini. Prevents cell-

## Target Details

intrinsic initiation of autoimmunity. Acts by metabolizing DNA fragments from endogenous retroelements, including L1, LTR and SINE elements. Unless degraded, these DNA fragments accumulate in the cytosol and activate the IFN-stimulatory DNA (ISD) response and innate immune signaling. Prevents chronic ATM-dependent checkpoint activation, by processing ssDNA polynucleotide species arising from the processing of aberrant DNA replication intermediates. Inefficiently degrades oxidized DNA, such as that generated upon antimicrobial reactive oxygen production or upon absorption of UV light. During GZMA-mediated cell death, contributes to DNA damage in concert with NME1. NME1 nicks one strand of DNA and TREX1 removes bases from the free 3' end to enhance DNA damage and prevent DNA end reannealing and rapid repair.

Aliases: TREX1 antibody, Three-prime repair exonuclease 1 antibody, EC 3.1.11.2 antibody, 3'-5' exonuclease TREX1 antibody, Deoxyribonuclease III antibody, DNase III antibody

UniProt: [Q9NSU2](#)

Pathways: [Apoptosis](#)

## Application Details

Application Notes: Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200, IP:1:200-1:2000,

Restrictions: For Research Use only

## Handling

Format: Liquid

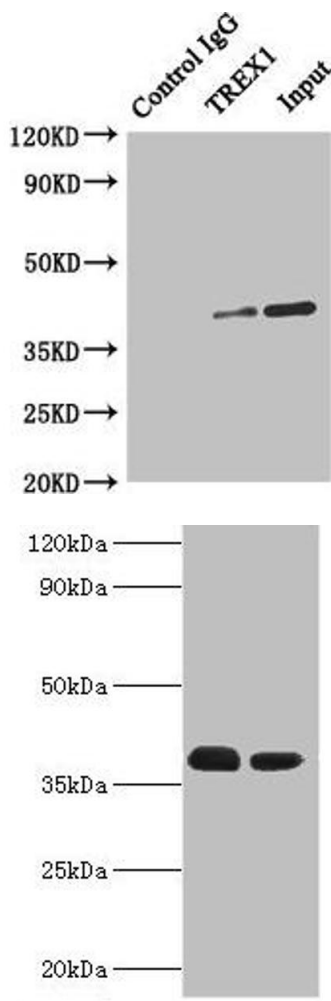
Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.

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, -80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

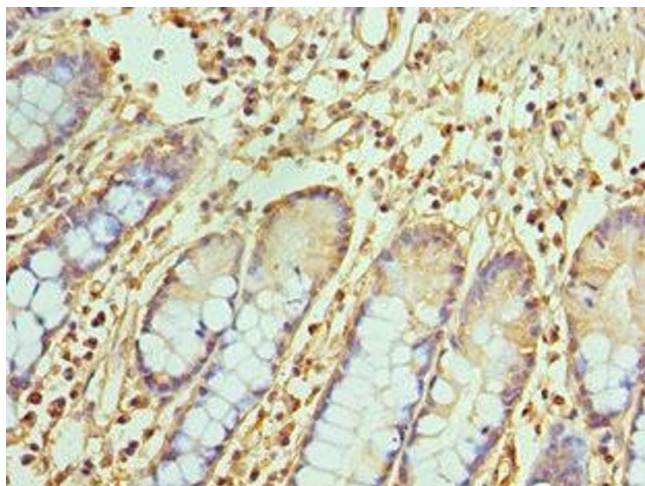


### Western Blotting

**Image 1.** Immunoprecipitating TREX1 in Hela whole cell lysate Lane 1: Rabbit control IgG instead of (1  $\mu$ g) instead of ABIN7172071 in Hela whole cell lysate. For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the Secondary antibody (1/50000) Lane 2: ABIN7172071 (4  $\mu$ g) + Hela whole cell lysate (500  $\mu$ g) Lane 3: Hela whole cell lysate (20  $\mu$ g)

### Western Blotting

**Image 2.** Western blot All lanes: Three-prime repair exonuclease 1 antibody at 3  $\mu$ g/mL Lane 1: Hela whole cell lysate Lane 2: HepG2 whole cell lysate Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 39, 33, 34 kDa Observed band size: 39 kDa



### Immunohistochemistry

**Image 3.** Immunohistochemistry of paraffin-embedded human small intestine tissue using ABIN7172071 at dilution of 1:100