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Datasheet for ABIN6991039

anti-TREX1 antibody (AA 220-270)

Overview

Quantity:	0.1 mg
Target:	TREX1
Binding Specificity:	AA 220-270
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TREX1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	TREX1 antibody was raised against a 15 amino acid synthetic peptide near the center of human TREX1. The immunogen is located within amino acids 220 - 270 of TREX1.
Isotype:	IgG
Specificity:	TREX1 antibody will not cross-react with the related protein TREX2. At least three isoforms of TREX1 are known to exist, this antibody will recognize all three isoforms.
Purification:	TREX1 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	TREX1
Alternative Name:	TREX1 (TREX1 Products)

Target Details

Background:	TREX1 Antibody: Trex1 is the major human 3' to 5' exonuclease which is required for checkpoint signaling after DNA damage. It is ubiquitously expressed, binds to single stranded DNA coated with replication protein A that accumulates at sites of DNA damage and recruits the ataxia telangiectasia and Rad3 related protein (ATR), a checkpoint kinase, to sites of DNA damage and replication stress. Trex1 is required for ATR expression. This gene uses two different open reading frames. The upstream ORF encodes proteins which interact with ATR and localize to intranuclear foci induced by DNA damage and are essential components of the DNA damage checkpoint. The downstream ORF encodes proteins with 3' to 5' exonuclease activity and may be a subunit of human DNA polymerase III. Mutations in this gene result in Aicardi-Goutieres syndrome, chilblain lupus, and Cree encephalitis.
Molecular Weight:	Predicted: 33, 35, 41 kDa Observed: 31 kDa
Gene ID:	11277
NCBI Accession:	NP_057465
UniProt:	Q9NSU2
Pathways:	Apoptosis

Application Details

Application Notes:	TREX1 antibody can be used for detection of TREX1 by Western blot at 0.5 and 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL. Antibody validated: Western Blot in human samples, Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	TREX1 Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C, 4 °C
Storage Comment:	TREX1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.