

# TREX-1 (C-14): sc-66288

## BACKGROUND

TREX-1 (3' repair exonuclease-1), also known as trophoblast expressed 1, CRV, AGS1, AGS5, DRN3, HERNS or DNase III, is a member of the exonuclease superfamily and belongs to the TREX family. Members of the TREX family are involved in DNA metabolism and repair. TREX-1 is expressed in spleen, liver, thymus, colon, heart, brain and small intestine. It localizes to the nucleus and exists as a homodimer. TREX-1 is an exonuclease and its activity requires magnesium as a cofactor. TREX-1 has a preference for double stranded DNA and functions in the 3'-5' direction yielding nucleoside 5'-phosphates. TREX-1 also interacts with the SET complex (an endoplasmic reticulum (ER)-associated complex) and participates in granzyme A-mediated apoptosis. Mutations or defects in the gene encoding TREX-1 have been associated with a variety of diseases, including systemic lupus erythematosus, chilblain lupus (CHBL), Aicardi-Goutieres syndrome type 1 (AGS1) and type 5 (AGS5) and autosomal dominant retinal vasculopathy with cerebral leukodystrophy (CRV).

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: TREX1 (human) mapping to 3p21.31.

## SOURCE

TREX-1 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of TREX-1 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-66288 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-66288 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TREX-1 (C-14) is recommended for detection of 3' repair exonuclease 1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

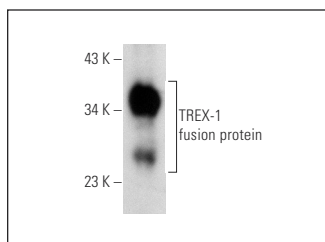
Suitable for use as control antibody for TREX-1 siRNA (h): sc-63157, TREX-1 shRNA Plasmid (h): sc-63157-SH and TREX-1 shRNA (h) Lentiviral Particles: sc-63157-V.

TREX-1 (C-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of TREX-1: 33 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

## DATA



TREX-1 (C-14): sc-66288. Western blot analysis of human recombinant TREX-1 fusion protein.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.



Try **TREX-1 (E-6): sc-271870**, our highly recommended monoclonal alternative to TREX-1 (C-14).