Product Datasheet

# TREX1 Rabbit mAb

Catalog No: #49888

Package Size: #49888-1 50ul #49888-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

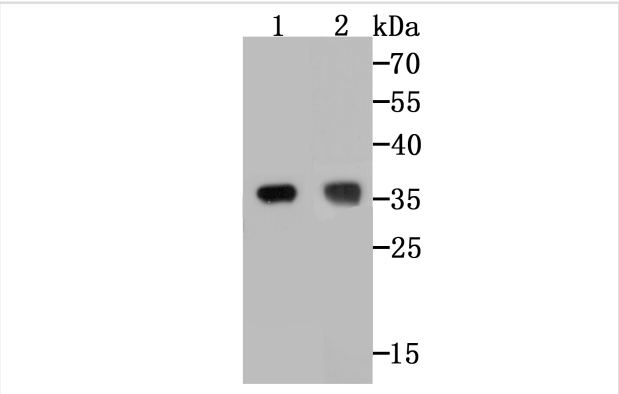
## Description

| | |
|---|---|
| Product Name | TREX1 Rabbit mAb |
| Host Species | Recombinant Rabbit |
| Clonality | Monoclonal antibody |
| Clone No. | JG35-71 |
| Purification | ProA affinity purified |
| Applications | WB,ICC,IF,IHC |
| Species Reactivity | Hu |
| Immunogen Description | Recombinant protein within human TREX1 aa 100-300. |
| Other Names | 3' 5' exonuclease TREX1 antibody 3' repair exonuclease 1 antibody AGS1 antibody AGS5 antibody CRV antibody Deoxyribonuclease III, dnaQ/mutD (E. coli) like antibody DKFZp434J0310 antibody DNase III antibody DRN3 antibody HERNS antibody Three prime repair exonuclease 1 antibody TREX1 antibody |
| Accession No. | Swiss-Prot#:Q9NSU2 |
| Uniprot | Q9NSU2 |
| GeneID | 11277; |
| Calculated MW | 34 kDa |
| Formulation | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide. |
| Storage | Store at -20°C |

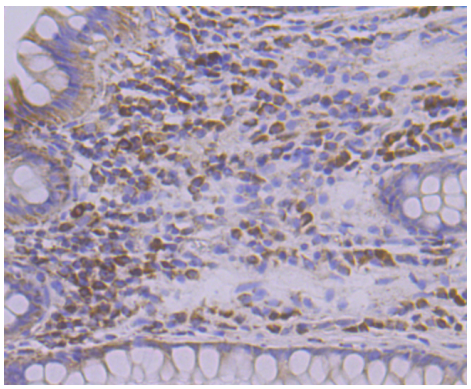
## Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200ICC: 1:50-1:200

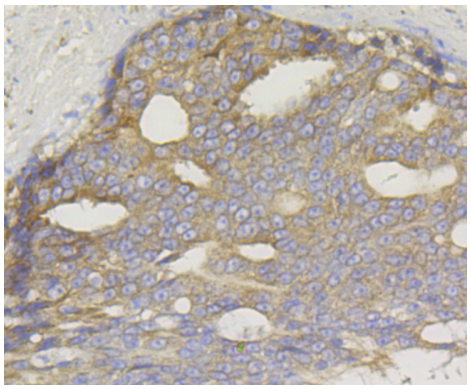
## Images



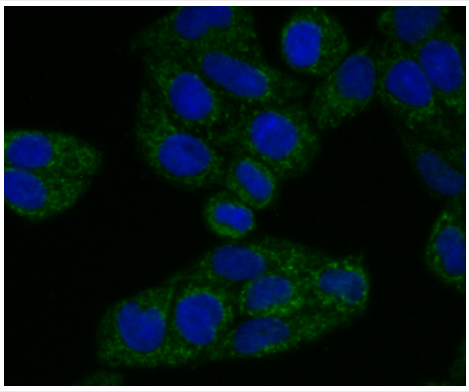

Western blot analysis of TREX1 on different cell lysates using anti-TREX1 at 1/500 dilution. Positive controlΩ½oΩ½ Line 1: A431 Line 2: SK-Br-3



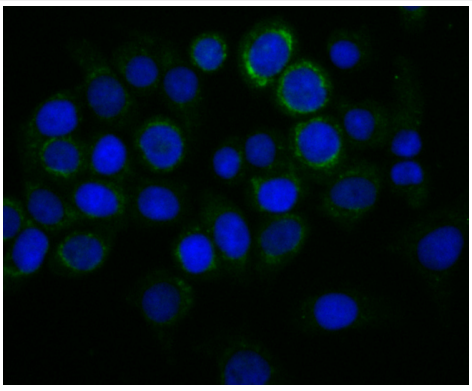
Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-TREX1 antibody. Counter stained with hematoxylin.



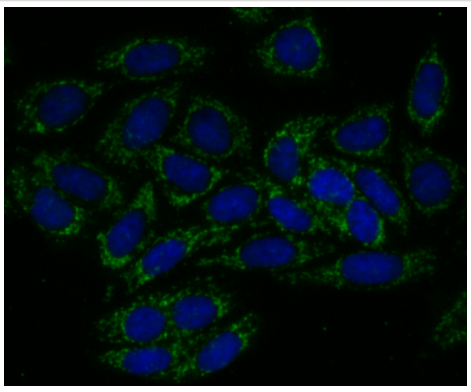
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue using anti-TREX1 antibody. Counter stained with hematoxylin.



ICC staining TREX1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining TREX1 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining TREX1 in SiHa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

## Background

Major cellular 3'-to-5' DNA exonuclease which digests single-stranded DNA (ssDNA) and double-stranded DNA (dsDNA) with mismatched 3' termini. Prevents cell-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.

## References

Note: This product is for in vitro research use only