

## Product datasheet for **TA387832**

### TREX1 Rabbit Polyclonal Antibody

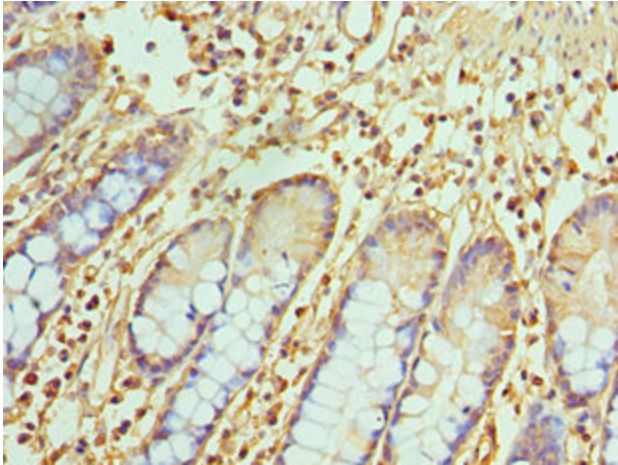
#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200, IP:1:200-1:2000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant Human Three-prime repair exonuclease 1 protein (1-270AA)
Formulation:	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Concentration:	lot specific
Purification:	Antigen Affinity Purified
Conjugation:	Unconjugated
Storage:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Stability:	1 year from dispatch.
Database Link:	<a href="#">Q9NSU2</a>
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.

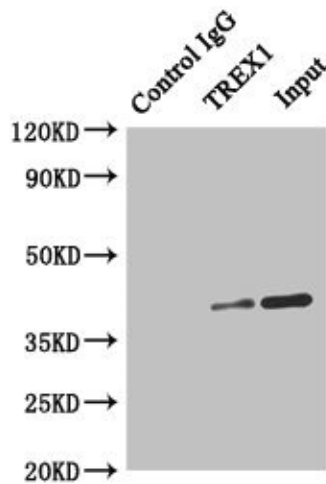


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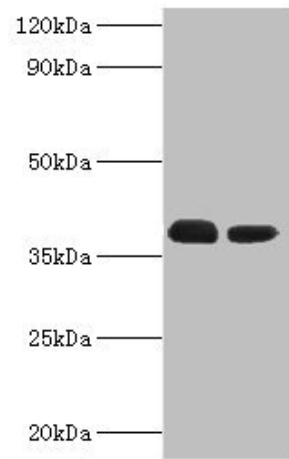
**Product images:**



Immunohistochemistry of paraffin-embedded human small intestine tissue using TA387832 at dilution of 1:100



Immunoprecipitating TREX1 in HeLa whole cell lysate  
 Lane 1: Rabbit control IgG instead of (1 $\mu$ g) instead of TA387832 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: TA387832 (4 $\mu$ g) + HeLa whole cell lysate (500 $\mu$ g)  
 Lane 3: HeLa whole cell lysate (20 $\mu$ g)



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