Recombinant TREX1 Monoclonal Antibody

catalog number: **AN301927L**

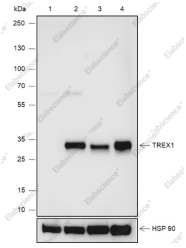
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	Recombinant human TREX1 fragment
Host	Rabbit
Isotype	Rabbit IgG
Clone	C331548
Purification	Protein A affinity purification
Conjugation	Unconjugated
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:1000

Data



Western Blot with TREX1 Monoclonal Antibody at dilution of 1:1000. Lane 1: 293T (Low expression), Lane 2: HeLa, Lane 3: Jurkat, Lane 4: Raji

Observed-MW:34 kDa

Calculated-MW:34 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze/thaw cycles.
Shipping	Ice bag

Background

TREX1 is a broadly expressed 3′ to 5′ exonuclease that acts on single-stranded DNA (ssDNA) to negatively regulate the interferon-stimulatory DNA (ISD) response. In humans, there are three TREX1 isoforms generated through alternative splicing with predicted molecular weights of 32, 33, and 39 kDa. The transcript for the 33 kDa isoform is the most abundant. Mice deficient in TREX1 accumulate intracellular ssDNA, which triggers the ISD response and eventually lethal autoimmunity. Mutations in TREX1 are associated with autoimmune diseases including Aicardi-Goutieres syndrome and systemic lupus erythematosus. In addition, TREX1 prevents the cell-intrinsic innate immune response to human immunodeficiency virus (HIV) by digesting excess HIV DNA that would normally trigger induction of type I interferon.

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