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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
 IgG, κ

 Clone
 A643

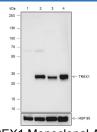
Purification Protein Apurified

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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