

Datasheet for ABIN7566319

TRIM21 Protein (AA 1-475) (His tag)



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Overview

Quantity:	10 µg
Target:	TRIM21
Protein Characteristics:	AA 1-475
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM21 protein is labelled with His tag.

Product Details

Purpose:	Lipoyl-TRIM21 (human) (rec.) (His)
Cross-Reactivity:	Human, Mouse
Characteristics:	Human TRIM21 (aa 1-475) is fused at the N-terminus to a Lipoyl domain (bacterial pyruvate dehydrogenase) and at the C-terminus to a 6xHis-tag.
Purity:	>90 % (SDS-PAGE)
Endotoxin Level:	<0.01EU/µg purified protein (LAL test).

Target Details

Target:	TRIM21
Alternative Name:	TRIM21 (TRIM21 Products)
Background:	E3 Ubiquitin-protein Ligase TRIM21, 52 kDa Ro Protein, Tripartite Motif-containing Protein 21

Target Details

TRIM21 (tripartite motif-containing protein 21) is a cytosolic Fc receptor induced by interferon (IFN). TRIM21 is distinguished from other Fc receptors by showing broad antibody specificity as it can activate its functions upon binding to IgG, IgM as well as IgA while other Fc receptors display more restricted antibody isotype and subtype specificities. TRIM21 also functions as a E3 ligase. During infection, antibodies are delivered efficiently to the cytosol when bound to intracellular pathogens such as viruses and bacteria. The antibody-pathogen complex in the cytosol upon engagement of the protein TRIM21 is ubiquitinated and degraded by the proteasome machinery. Trim-Away is a method to degrade endogenous proteins based on TRIM21, Fc receptor binding and ubiquitin ligase activity. TRIM21, which recognizes antibody-bound proteins of interest, targets them for degradation by the proteasome. The Lipoyl-TRIM21 (human) (His) (rec.) protein is used in the original papers describing Trim-Away.

Molecular Weight: ~68kDa

UniProt: [P19474](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: 0.1 mg/mL after reconstitution

Concentration: 0.1 mg/mL

Buffer: Contains 50 mM Tris-HCl, pH 8 and 300 mM NaCl.

Handling Advice: After reconstitution, prepare aliquots and store at -20 °C. Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution. PBS containing at least 0.1 % BSA should be used for further dilutions.

Storage: 4 °C, -20 °C

Storage Comment: Short Term Storage: +4°C

Long Term Storage: -20°C

Use & Stability: Stable for at least 6 months after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.