

Datasheet for ABIN2669632

TRIM33 Protein (AA 959-1059) (His tag,DYKDDDDK Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	TRIM33
Protein Characteristics:	AA 959-1059
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM33 protein is labelled with His tag,DYKDDDDK Tag.
Application:	Binding Studies (Bind), Screening Assay (ScA)

Product Details

Characteristics:	The peptide corresponding to amino acids 959 - 1059 that contains the bromodomain sequences of TRIM33 (accession number NP_056990.3) was expressed in E. coli and contains an N-terminal His tag and C-terminal FLAG tag with an observed molecular weight of 17.7 kDa.
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Target Details

Target:	TRIM33
Alternative Name:	TRIM33 (TRIM33 Products)
Background:	Tripartite motif-containing 33 (TRIM33) protein, also known as TIF1γ, is a member of the transcriptional intermediary factor 1 (TIF1) family that control transcription and chromatin remodeling through their interaction with transcription factors. The family includes TRIM24 (TIF1α), TRIM28 (TIF1β) and TRIM33 (TIF1γ) that share a characteristic domain structure

Target Details

comprised of multiple histone-binding domains, an N-terminal TRIM region (containing a RING domain, B box type 1 and type 2 domains, and a coiled-coil region), and a C-terminal bromodomain and PHD finger. Bromodomains function as 'readers' of epigenetic histone marks and regulate chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. TRIM33 is an E3 ubiquitin protein ligase that promotes SMAD4 ubiquitination, nuclear exclusion and degradation via the ubiquitin proteasome pathway. TRIM33 does not affect SMAD4 levels but rather acts as an inhibitor of the SMAD4-dependent TGF β /BMP signaling cascade by monoubiquitinating SMAD4 and hampering its ability to form a stable complex with activated SMAD2/3. TRIM33 may also act as a transcriptional corepressor. It has also been shown to associate with SMAD2 and SMAD3 and stimulate differentiation of hematopoietic stem cells. Additionally, TRIM33 associates with TRIM24 and plays a role in the control of cell proliferation.

Molecular Weight:	17.7 kDa
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Application Details

Application Notes:	Recombinant TRIM33 (959-1069) is suitable for use in binding assays, inhibitor screening, and selectivity profiling.
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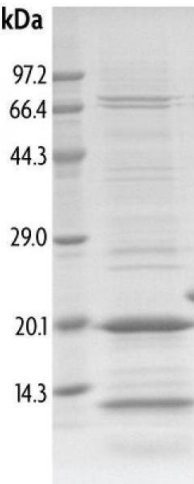
Restrictions:	For Research Use only
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Handling

Handling Advice:	Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
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Storage:	-80 °C
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Storage Comment:	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation.
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Western Blotting

Image 1. Recombinant TRIM33 (959-1069) protein gel. TRIM33 (959-1069) protein was run on an SDS-PAGE gel and stained with Coomassie blue.