

Datasheet for ABIN2669633

TRIM24 Protein (AA 862-980) (His tag,DYKDDDDK Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	TRIM24
Protein Characteristics:	AA 862-980
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM24 protein is labelled with His tag,DYKDDDDK Tag.
Application:	Binding Studies (Bind), Screening Assay (ScA)

Product Details

Characteristics:	The peptide corresponding to amino acids 862 - 980 that contains the bromodomain sequences of TRIM24 (accession number NM_003852.3) was expressed in E. coli and contains an N-terminal His tag and C-terminal FLAG tag with an observed molecular weight of 18.8 kDa. It shows binding specificity for acetylated H3K9, H3K14 and H3K16.
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Target Details

Target:	TRIM24
Alternative Name:	TRIM24 (TRIM24 Products)
Background:	Tripartite motif-containing 24 (TRIM24) protein, also known as TIF1α, 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

Target Details

(TIF1 α), TRIM28 (TIF1 β) and TRIM33 (TIF1 γ) that share a characteristic domain structure 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. TRIM24 interacts with chromatin through recognition of specific histone H3 modifications, having the highest affinity for histone H3 that is both unmodified at lysine 4 (H3K4me0) and acetylated at lysine 23 (H3K23ac). TRIM24 is an E3 ubiquitin-protein ligase that promotes proteosomal degradation of p53/TP53 and, in conjunction with TRIM33, mediates cell proliferation and apoptosis. TRIM24 also modulates transcriptional activation by retinoic acid (RA) receptors, including RARA, and has been shown to regulate RA-dependent proliferation of hepatocytes. TRIM24 functions as a transcriptional coactivator that interacts with the AF2 region of numerous nuclear receptors, including estrogen, RA and vitamin D3 receptors, and coactivators to modulate the transcription of target genes. It has been shown to be involved in upregulating ligand-dependent transcription activation by AR, GCR/NR3C1, thyroid hormone receptor (TR) and ESR1.

Molecular Weight:	18.8 kDa
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Application Details

Application Notes:	Recombinant TRIM24 (862-980) is suitable for use in binding assays, inhibitor screening, and selectivity profiling.
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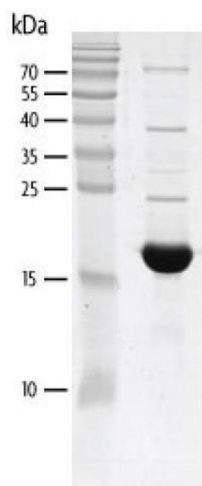
Restrictions:	For Research Use only
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Handling

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 TRIM24 (862-980) protein gel. TRIM24 (862-980) protein was run on a 10% SDS-PAGE gel and stained with Coomassie blue.