

KD-Validated Anti-Tripartite motif containing 24 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1415**Specification****KD-Validated Anti-Tripartite motif containing 24 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	O15164
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 117 kDa , observed, 130 kDa
Gene Name	KDa
Aliases	TRIM24
	TRIM24; Tripartite Motif Containing 24; RNF82; TIF1A; HTIF1; TIF1; RING-Type E3 Ubiquitin Transferase TIF1-Alpha; Transcription Intermediary Factor 1-Alpha; Transcriptional Intermediary Factor 1; E3 Ubiquitin-Protein Ligase TRIM24; RING Finger Protein 82; TIF1-Alpha; Tripartite Motif-Containing Protein 24; Tripartite Motif-Containing 24; EC 2.3.2.27; TIF1ALPHA; EC 6.3.2; Tif1a; PTC6; TF1A
Immunogen	A synthesized peptide derived from human TRIM24

KD-Validated Anti-Tripartite motif containing 24 Rabbit Monoclonal Antibody - Additional Information

Gene ID	8805
Other Names	Transcription intermediary factor 1-alpha, TIF1-alpha, 2.3.2.27, E3 ubiquitin-protein ligase TRIM24, RING finger protein 82, RING-type E3 ubiquitin transferase TIF1-alpha, Tripartite motif-containing protein 24, TRIM24, RNF82, TIF1, TIF1A

KD-Validated Anti-Tripartite motif containing 24 Rabbit Monoclonal Antibody - Protein Information**Name** TRIM24**Synonyms** RNF82, TIF1, TIF1A**Function**

Transcriptional coactivator that interacts with numerous nuclear receptors and coactivators and modulates the transcription of target genes. Interacts with chromatin depending on histone H3 modifications, having the highest affinity for histone H3 that is both unmodified at 'Lys-4'

(H3K4me0) and acetylated at 'Lys-23' (H3K23ac). Has E3 protein-ubiquitin ligase activity. During the DNA damage response, participates in an autoregulatory feedback loop with TP53. Early in response to DNA damage, ATM kinase phosphorylates TRIM24 leading to its ubiquitination and degradation. After sufficient DNA repair has occurred, TP53 activates TRIM24 transcription, ultimately leading to TRIM24-mediated TP53 ubiquitination and degradation (PubMed:24820418). Plays a role in the regulation of cell proliferation and apoptosis, at least in part via its effects on p53/TP53 levels. Up- regulates ligand-dependent transcription activation by AR, GCR/NR3C1, thyroid hormone receptor (TR) and ESR1. Modulates transcription activation by retinoic acid (RA) receptors, including RARA. Plays a role in regulating retinoic acid-dependent proliferation of hepatocytes (By similarity). Also participates in innate immunity by mediating the specific 'Lys-63'-linked ubiquitination of TRAF3 leading to activation of downstream signal transduction of the type I IFN pathway (PubMed:32324863). Additionally, negatively regulates NLRP3/CASP1/IL-1beta-mediated pyroptosis and cell migration probably by ubiquitinating NLRP3 (PubMed:33724611).

Cellular Location

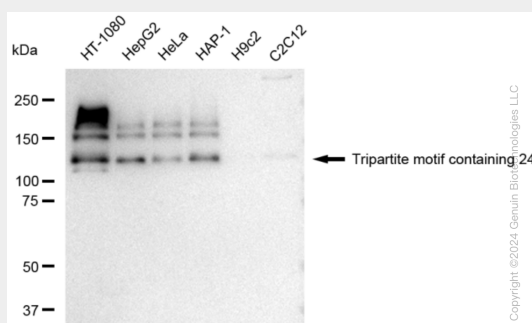
Nucleus. Cytoplasm. Mitochondrion. Note=Colocalizes with sites of active transcription. Predominantly nuclear. Translocated from nucleus to mitochondria to mediate antiviral immunity (PubMed:32324863). Localizes to sites of DNA damage (PubMed:25593309).

KD-Validated Anti-Tripartite motif containing 24 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Tripartite motif containing 24 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Tripartite motif containing 24 antibody (Cat#AGI1415). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Tripartite motif containing 24 antibody (Cat#AGI1415, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

