

[KD Validated] Anti-TRIM24 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

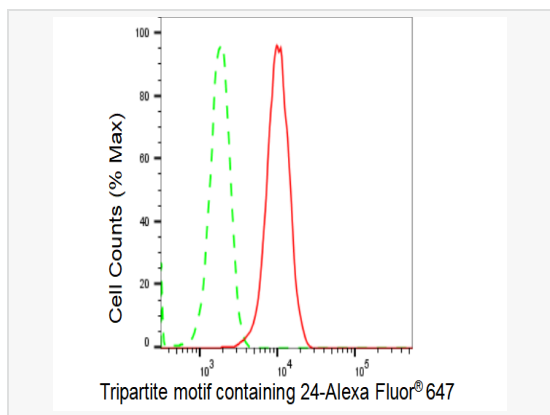
Catalog # R021356

Product Information

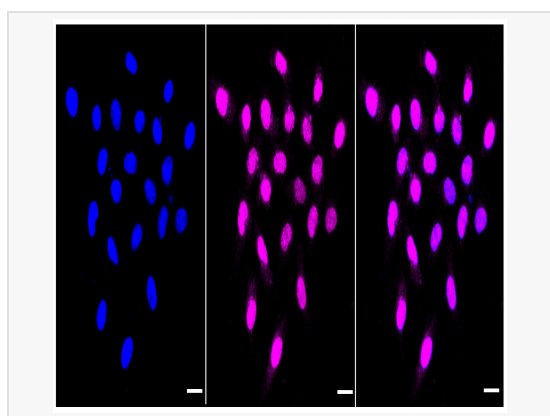
Application	WB, FC, IF (Cell)/ICC
Reactivity	Human
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	41S83E06
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human TRIM24
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-TRIM24 Rabbit mAb [41S83E06] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

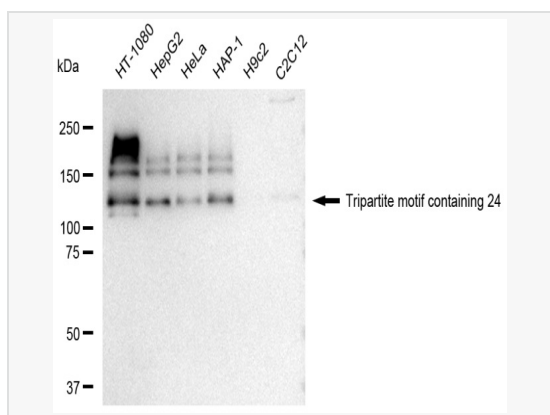
Synonyms	TRIM24; Tripartite Motif Containing 24; RNF82; TIF1A; HTIF1; TIF1; RING-Type E3 Ubiquitin Transferase TIF1-Alpha; Transcription Intermediary Factor 1-Alpha; Transcriptional Intermediary Factor 1; E3 Ubiquitin-Protein Ligase TRIM24; RING Finger Protein 82; TIF1-Alpha; Tripartite Motif-Containing Protein 24; Tripartite Motif-Containing 24; EC 2.3.2.27; TIF1ALPHA; EC 6.3.2; Tif1a; PTC6; TF1A.
Calculated MW	Calculated MW: 117 kDa, Observed MW: 130 kDa
Uniprot ID	O15164
Gene ID	8805
Background	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. Promotes ubiquitination and proteasomal degradation of p53/TP53. 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 .



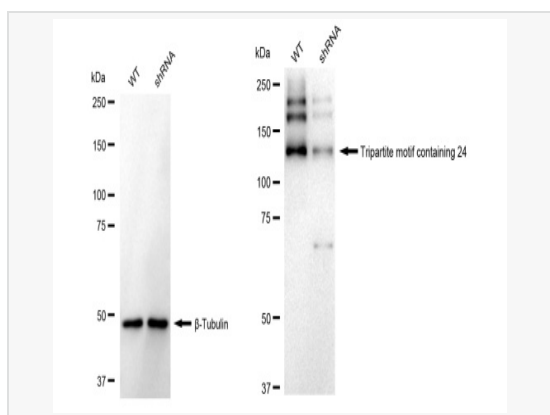
Flow cytometric analysis of Tripartite motif containing 24 expression in HepG2 cells using Tripartite motif containing 24 antibody (R021356, 1:2,000). Green, isotype control; red, Tripartite motif containing 24.



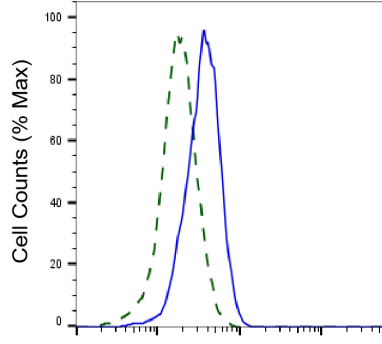
Immunocytochemical staining of HepG2 cells with Tripartite motif containing 24 antibody (R021356, 1:1,000). Nuclei were stained blue with DAPI; Tripartite motif containing 24 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Western blotting analysis using Tripartite motif containing 24 antibody (R021356). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Tripartite motif containing 24 antibody (R021356, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using Tripartite motif containing 24 antibody (R021356). Tripartite motif containing 24 expression in wild type (WT) and Tripartite motif containing 24 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Tripartite motif containing 24 antibody (R021356, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Tripartite motif containing 24-Alexa Fluor® 647

Validation of Tripartite motif containing 24 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Tripartite motif containing 24 antibody (R021356, 1:2,000) and analyzed using BD flow cytometer.