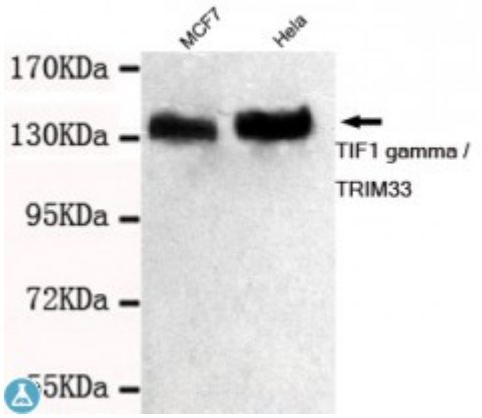
Anti-TIF gamma/TRIM33 antibody



Description	Mouse monoclonal to TIF1gamma/TRIM33.

Model	STJ99067
Host	Mouse
Reactivity	Human
Applications	ELISA, WB
Immunogen	Purified recombinant human TIF1 gamma / TRIM33 protein fragments expressed in E.coli.
Gene ID	51592
Gene Symbol	TRIM33
Dilution range	WB 1:500-2000ELISA 1:10000-20000
Specificity	This antibody detects endogenous levels of TIF1 gamma / TRIM33 and does not cross-react with related proteins.
Tissue Specificity	Expressed in stem cells at the bottom of the crypts of the colon (at protein level). Expressed in colon adenomas and adenocarcinomas (at protein level). Expressed in brain, lung, liver, spleen, thymus, prostate, kidney, testis, heart, placenta, pancreas, small intestine, ovary, colon, skeletal muscle and hematopoietic progenitors.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clone ID	3H7-C8-B9
Note	For Research Use Only (RUO).

Protein Name	E3 ubiquitin-protein ligase TRIM33 RET-fused gene 7 protein Protein Rfg7 RING-type E3 ubiquitin transferase TRIM33 Transcription intermediary factor 1-gamma TIF1-gamma Tripartite motif-containing protein 33
Molecular Weight	140kDa
Clonality	Monoclonal
Conjugation	Unconjugated
Isotype	IgG2a
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:16290OMIM:605769
Alternative Names	E3 ubiquitin-protein ligase TRIM33 RET-fused gene 7 protein Protein Rfg7 RING-type E3 ubiquitin transferase TRIM33 Transcription intermediary factor 1-gamma TIF1-gamma Tripartite motif-containing protein 33
Function	Acts as an E3 ubiquitin-protein ligase. Promotes SMAD4 ubiquitination, nuclear exclusion and degradation via the ubiquitin proteasome pathway. According to PubMed:16751102, does not promote a decrease in the level of endogenous SMAD4. May act as a transcriptional repressor. Inhibits the transcriptional response to TGF-beta/BMP signaling cascade. Plays a role in the control of cell proliferation. Its association with SMAD2 and SMAD3 stimulates erythroid differentiation of hematopoietic stem/progenitor . Monoubiquitinates SMAD4 and acts as an inhibitor of SMAD4-dependent TGF-beta/BMP signaling cascade (Monoubiquitination of SMAD4 hampers its ability to form a stable complex with activated SMAD2/3 resulting in inhibition of TGF-beta/BMP signaling cascade).
Cellular Localization	Nucleus. In discrete nuclear dots resembling nuclear bodies.
Post-translational Modifications	Sumoylated with SUMO1.