

Anti-TIF1 gamma Antibody (3H7-C8-B9)
Mouse Monoclonal Antibody
Catalog # ABV12044**Specification**

Anti-TIF1 gamma Antibody (3H7-C8-B9) - Product Information

Application	WB
Primary Accession	Q9UPN9
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2a

Anti-TIF1 gamma Antibody (3H7-C8-B9) - Additional Information**Gene ID** 51592**Application & Usage**
Other Names
TRIM33**WB: MCF7 and HeLa nuclear extracts****Target/Specificity**
TRIM33**Antibody Form**
Liquid**Appearance**
Colorless liquid**Formulation**
In buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Handling**
The antibody solution should be gently mixed before use.**Reconstitution & Storage**
-20 °C**Background Descriptions****Precautions**

Anti-TIF1 gamma Antibody (3H7-C8-B9) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-TIF1 gamma Antibody (3H7-C8-B9) - Protein Information

Name TRIM33

Synonyms KIAA1113, RFG7, TIF1G

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 (By similarity). 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 Location

Nucleus. Note=In discrete nuclear dots resembling nuclear bodies (By similarity). Localizes to sites of DNA damage (PubMed:25593309). {ECO:0000250|UniProtKB:Q99PP7, ECO:0000269|PubMed:25593309}

Tissue Location

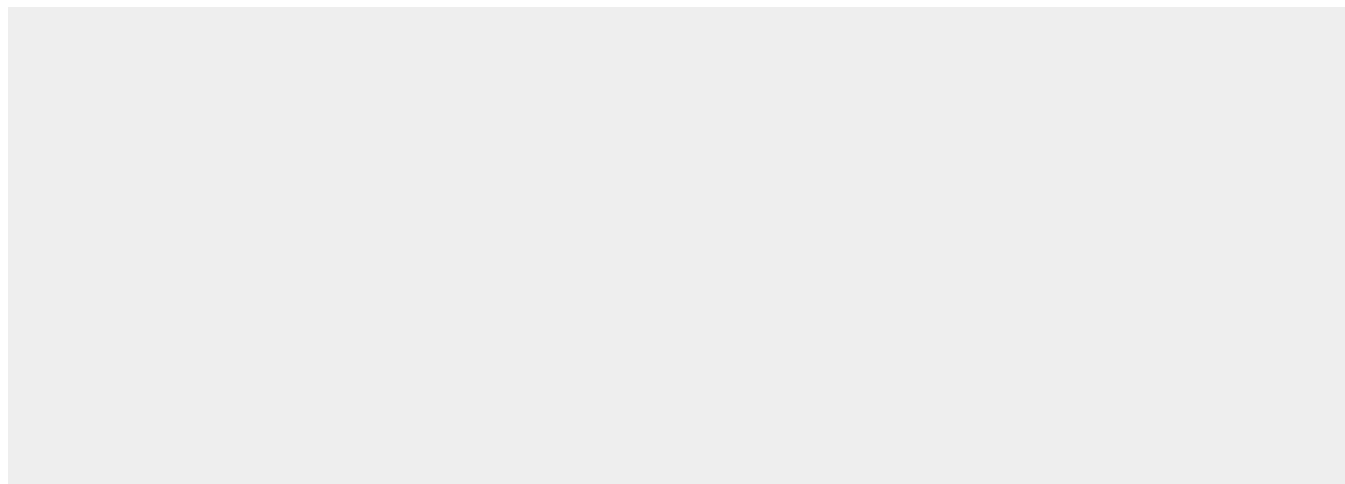
Expressed in stem cells at the bottom of the crypts of the colon (at protein level). Expressed in colon adenomas and adenocarcinomas (at protein level). Expressed in brain, lung, liver, spleen, thymus, prostate, kidney, testis, heart, placenta, pancreas, small intestine, ovary, colon, skeletal muscle and hematopoietic progenitors

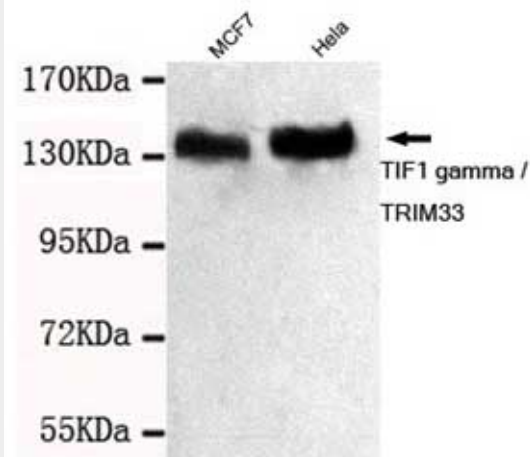
Anti-TIF1 gamma Antibody (3H7-C8-B9) - Protocols

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](#)

Anti-TIF1 gamma Antibody (3H7-C8-B9) - Images





Western blot detection of TIF1 gamma / TRIM33 in MCF7 and HeLa nuclear extract using TIF1 gamma mouse mAb

Anti-TIF1 gamma Antibody (3H7-C8-B9) - Background

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 (By similarity). 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)