

**TIF1 gamma / TRIM33 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AP52681**

**Specification**

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**TIF1 gamma / TRIM33 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O9UPN9</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Calculated MW	140 KDa

**TIF1 gamma / TRIM33 Antibody - Additional Information**

**Gene ID** 51592

**Other Names**

8030451N04Rik;AI413936;cb1085;DKFZp586K1123;E3 ubiquitin-protein ligase TRIM33;EC 6.3.2.-;Ectodermin;Ectodermin homolog;FLJ11429;FLJ32925;id:ibd2175;MGC136680;mKIAA1113;OTTHUMP00000013662;OTTHUMP00000013663;Protein Rfg7;PTC7;Ret fused gene 7;RET-fused gene 7 protein;RFG7;Rfg7 protein;TF1G;TIF1-gamma;TIF1G;TIF1GAMMA;TIFGAMMA;Transcription intermediary factor 1-gamma;Transcriptional intermediary factor 1 gamma;TRI33\_HUMAN;Trim33;Tripartite motif containing 33;Tripartite motif containing 33 protein;tripartite motif-containing 33;Tripartite motif-containing protein 33;wu:fc17f10;zgc:136680.

**Dilution**

WB~~1:1000

**Format**

Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.09% (W/V) sodium azide, 50%,glycerol

**Storage**

Store at -20 °C.Stable for 12 months from date of receipt

**TIF1 gamma / TRIM33 Antibody - 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:<a href="http://www.uniprot.org/citations/16751102" target="\_blank">16751102</a>, 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

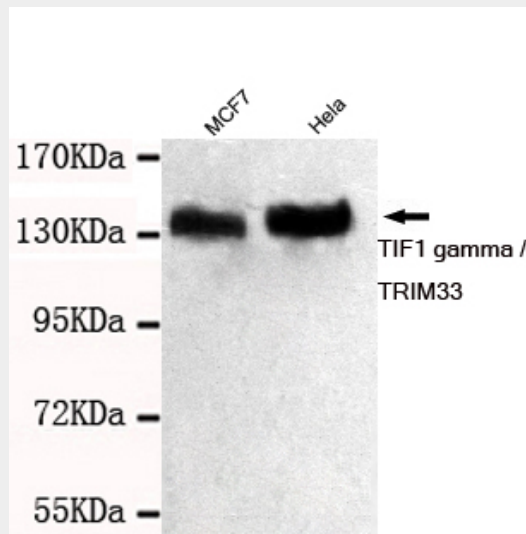
Expressed in stem cells at the bottom of the crypts of the colon (at protein level). Expressed in colon adenomas and adenocarcinomas (at protein level). Expressed in brain, lung, liver, spleen, thymus, prostate, kidney, testis, heart, placenta, pancreas, small intestine, ovary, colon, skeletal muscle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

### TIF1 gamma / TRIM33 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](#)

### TIF1 gamma / TRIM33 Antibody - Images



Western blot detection of TIF1 gamma / TRIM33 in MCF7 and HeLaNE cell lysates using TIF1 gamma / TRIM33 mouse mAb (1:1000 diluted). Predicted band size: 120KDa. Observed band size: 140KDa.

### TIF1 gamma / TRIM33 Antibody - 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).

#### **TIF1 gamma / TRIM33 Antibody - References**

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Reymond A.,et al.EMBO J. 20:2140-2151(2001).  
Kikuno R.,et al.DNA Res. 6:197-205(1999).  
Gregory S.G.,et al.Nature 441:315-321(2006).  
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