10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Specification

TIF1 gamma / TRIM33 Antibody - Product Information

Application	**WB**
Primary Accession	Q9UPN9
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:16751102, does not promote a decrease in the level of endogenous SMAD4. May act as a transcriptional repressor.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

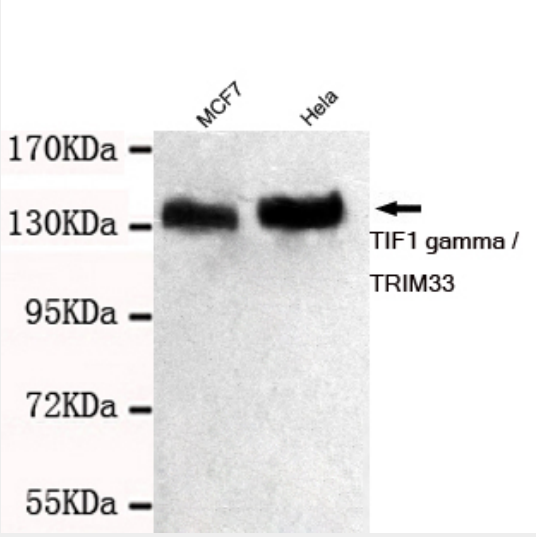
Expressed in stem cells at the bottom of the crypts of the colon (at protein level). Expressed in colon adenomas and adenocarcinomas (at protein level). Expressed in brain, lung, liver, spleen, thymus, prostate, kidney, testis, heart, placenta, pancreas, small intestine, ovary, colon, skeletal muscle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

Venturini L.,et al.Oncogene 18:1209-1217(1999).
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).
Klugbauer S.,et al.Oncogene 18:4388-4393(1999).