

TIF1 γ Mouse mAb

CatalogNo: YM1108

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat, Bovine, Dog, Pig

Applications

- WB, IF, IHC

MW

- 123kD (Calculated)

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:1000-1:2000

IF 1:100-1:500

IHC 1:50-200

Not yet tested in other applications.

Basic Information

Clonality Monoclonal

Clone Number 20E8

Immunogen Information

Immunogen Purified recombinant human TIF1 γ (C-terminus) protein fragments expressed in E.coli.

Specificity TIF1 γ Monoclonal Antibody detects endogenous levels of TIF1 γ protein.

| Target Information

Gene name TRIM33

Protein Name E3 ubiquitin-protein ligase TRIM33

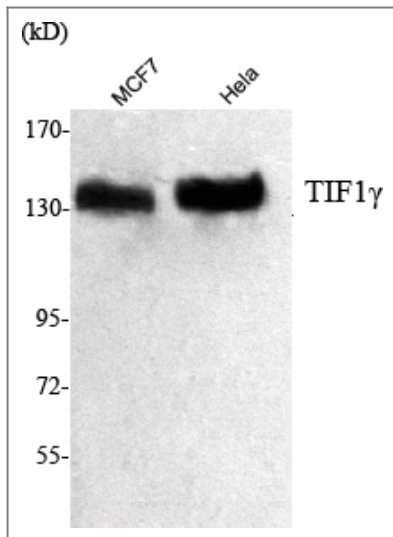
Organism	Gene ID	UniProt ID
Human	51592 ;	Q9UPN9 ;
Mouse	94093 ;	Q99PP7 ;

Cellular Localization Nucleus . In discrete nuclear dots resembling nuclear bodies. .

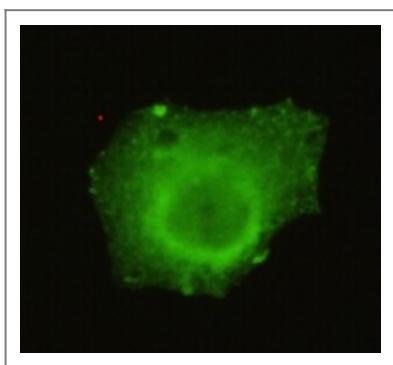
Tissue specificity Expressed in stem cells at the bottom of the crypts of the colon (at protein level). Expressed in colon adenomas and adenocarcinomas (at protein level). Expressed in brain, lung, liver, spleen, thymus, prostate, kidney, testis, heart, placenta, pancreas, small intestine, ovary, colon,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

Function Disease:A chromosomal aberration involving TRIM33 is a cause of thyroid papillary carcinoma (PACT) [MIM:188550]. Translocation t(1;10)(p13;q11) with RET. The translocation generates the TRIM33/RET (PTC7) oncogene.,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).,pathway:Protein modification; protein ubiquitination.,similarity:Belongs to the TRIM/RBCC family.,similarity:Contains 1 bromo domain.,similarity:Contains 1 PHD-type zinc finger.,similarity:Contains 1 RING-type zinc finger.,similarity:Contains 2 B box-type zinc fingers.,subcellular location:In discrete nuclear dots resembling nuclear bodies.,subunit:Homooligomer and heterooligomer with TRIM24 and TRIM28 family members. Interacts with SMAD4 in unstimulated cells. Found in a complex with SMAD2 and SMAD3 upon addition of TGF-beta. Interacts with SMAD2 and SMAD3. Interacts with SMAD4 under basal and induced conditions and, upon TGF-beta signaling, with activated SMAD2. Forms a ternary complex with SMAD4 and SMAD2 upon TGF-beta signaling.,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.,

| Validation Data



Western Blot analysis using TIF1 γ Monoclonal Antibody against MCF7 cell lysate, HeLa nuclear extract.



Immunofluorescence analysis of HeLa cells using TIF1 γ Monoclonal Antibody.

Contact information

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Please scan the QR code to access additional product information:
TIF1 γ Mouse mAb

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