

**Anti-TIF1 Gamma Picoband Antibody**  
**Catalog # ABO12522****Specification**

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**Anti-TIF1 Gamma Picoband Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">Q9UPN9</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for E3 ubiquitin-protein ligase TRIM33(TRIM33) detection. Tested with WB, IHC-P in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-TIF1 Gamma Picoband Antibody - Additional Information**

**Gene ID** 51592

**Other Names**

E3 ubiquitin-protein ligase TRIM33, 6.3.2.-, Ectodermin homolog, RET-fused gene 7 protein, Protein Rfg7, Transcription intermediary factor 1-gamma, TIF1-gamma, Tripartite motif-containing protein 33, TRIM33, KIAA1113, RFG7, TIF1G

**Calculated MW**

122533 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br><br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular 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.

**Protein Name**

E3 ubiquitin-protein ligase TRIM33

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

**Immunogen**

E.coli-derived human TIF1 gamma recombinant protein (Position: M1001-K1127). Human TIF1 gamma shares 96.1% amino acid (aa) sequence identity with mouse TIF1 gamma.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-TIF1 Gamma Picoband 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

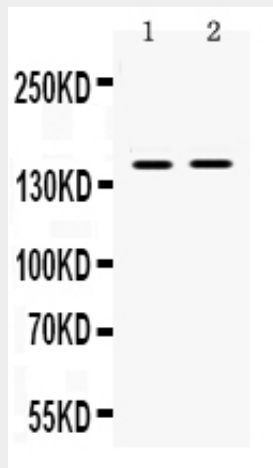
**Anti-TIF1 Gamma Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

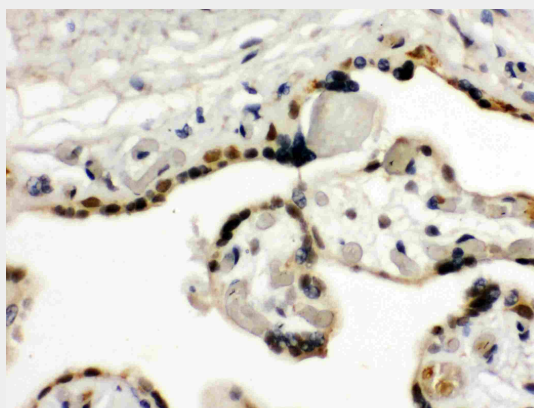
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-TIF1 Gamma Picoband Antibody - Images



Anti- TIF1 gamma Picoband antibody, ABO12522, Western blotting  
All lanes: Anti TIF1 gamma (ABO12522) at 0.5ug/ml  
Lane 1: 22RV1 Whole Cell Lysate at 40ug  
Lane 2: SW620 Whole Cell Lysate at 40ug  
Predicted bind size: 150KD  
Observed bind size: 150KD



Anti- TIF1 gamma Picoband antibody, ABO12522, IHC(P)  
IHC(P): Human Placenta Tissue

#### Anti-TIF1 Gamma Picoband Antibody - Background

Tripartite motif-containing 33 (TRIM33), also known as transcriptional intermediary factor 1 gamma (TIF1- $\gamma$ ), is a human gene. The TRIM33 gene is mapped to chromosome 1p13 by FISH. The protein encoded by this gene is thought to be a transcriptional corepressor. However, molecules that interact with this protein have not yet been identified. The protein is a member of the tripartite motif family. This motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. Three alternatively spliced transcript variants for this gene have been described; however, the full-length nature of one variant has not been determined.