

## Product datasheet

# Anti-TIF1 gamma antibody [16G9] ab33475

★★★★★ 1 Abreviews 1 Image

### Overview

<b>Product name</b>	Anti-TIF1 gamma antibody [16G9]
<b>Description</b>	Mouse monoclonal [16G9] to TIF1 gamma
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> ICC, IP, WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant full length protein (Human): TIF1 gamma.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.05% Sodium Azide Constituents: PBS, 1mg/ml BSA
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	16G9
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab33475** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC	★★★★★	Use a concentration of 4 µg/ml.
IP		Use at an assay dependent concentration.
WB		Use a concentration of 2 µg/ml. Predicted molecular weight: 123 kDa.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 4 µg/ml.

## Target

### 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).

### 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.

### Pathway

Protein modification; protein ubiquitination.

### Involvement in disease

Defects in TRIM33 are a cause of thyroid papillary carcinoma (TPC) [MIM:188550]. TPC is a common tumor of the thyroid that typically arises as an irregular, solid or cystic mass from otherwise normal thyroid tissue. Papillary carcinomas are malignant neoplasm characterized by the formation of numerous, irregular, finger-like projections of fibrous stroma that is covered with a surface layer of neoplastic epithelial cells. Note=A chromosomal aberration involving TRIM33 is found in thyroid papillary carcinomas. Translocation t(1;10)(p13;q11) with RET. The translocation generates the TRIM33/RET (PTC7) oncogene.

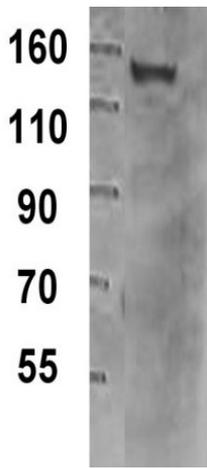
### Sequence similarities

Belongs to the TRIM/RBCC family.  
 Contains 2 B box-type zinc fingers.  
 Contains 1 bromo domain.  
 Contains 1 PHD-type zinc finger.  
 Contains 1 RING-type zinc finger.

### Cellular localization

Nucleus. In discrete nuclear dots resembling nuclear bodies.

## Images



Anti-TIF1 gamma antibody [16G9] (ab33475)  
at 2 µg/ml + Recombinant TIF1 gamma at 20  
µg

**Predicted band size:** 123 kDa

**Observed band size:** 150 kDa

Western blot - TIF1 gamma antibody [16G9]  
(ab33475)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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