

## Product datasheet

# Anti-TRIM56 antibody [EPR10583] ab154862

KO VALIDATED Recombinant RabMAb

[6 References](#) [12 Images](#)

### Overview

<b>Product name</b>	Anti-TRIM56 antibody [EPR10583]
<b>Description</b>	Rabbit monoclonal [EPR10583] to TRIM56
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide within Human TRIM56. The exact sequence is proprietary. Database link: <a href="#">Q9BRZ2</a>
<b>Positive control</b>	IHC-P: Human brain, pancreas and colon cancer tissues. WB: HAP1, A549, A375, MCF7 and HeLa cell lysates. ICC/IF: MCF7 and HeLa cells Flow Cyt (intra): MCF7 cells
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

Clone number                   EPR10583  
Isotype                            IgG

## Applications

**The Abpromise guarantee**           Our **Abpromise guarantee** covers the use of ab154862 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
Flow Cyt (Intra)		1/20. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. For unpurified use at 1/100 - 1/500 dilution.
WB		1/10000 - 1/50000. Predicted molecular weight: 81 kDa.
IHC-P		1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See <b>IHC antigen retrieval protocols</b> . For unpurified use at 1/50 -1/100 dilution.
ICC/IF		1/70. For unpurified use at 1/100 - 1/250 dilution.

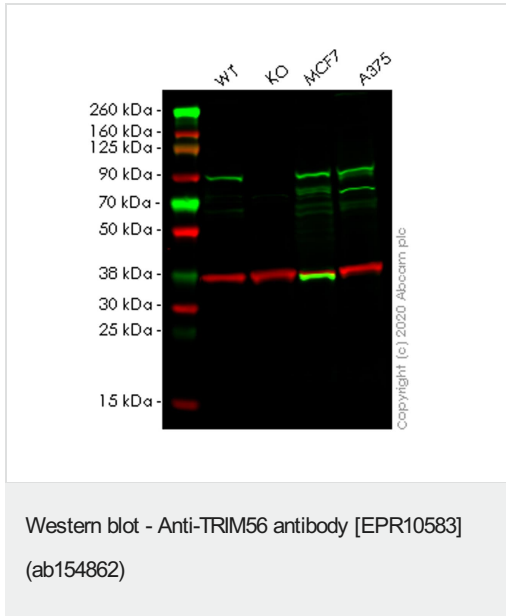
## Target

**Function**                               E3 ubiquitin-protein ligase that mediates 'Lys-63'-linked polyubiquitination of TMEM173/STING, thereby playing a key role in innate immunity. TMEM173/STING 'Lys-63'-linked ubiquitination activates the production of type I interferon IFN-beta following detection of pathogen- and host-derived double-stranded DNA.

**Sequence similarities**               Belongs to the TRIM/RBCC family.  
Contains 2 B box-type zinc fingers.  
Contains 1 RING-type zinc finger.

**Cellular localization**               Cytoplasm.

## Images



**All lanes :** Anti-TRIM56 antibody [EPR10583] (ab154862) at 1/1000 dilution

**Lane 1 :** Wild-type A549 (Human lung carcinoma cell line) whole cell lysate

**Lane 2 :** TRIM56 knockout A549 (Human lung carcinoma cell line) whole cell lysate

**Lane 3 :** MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

**Lane 4 :** A-375 (Human malignant melanoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

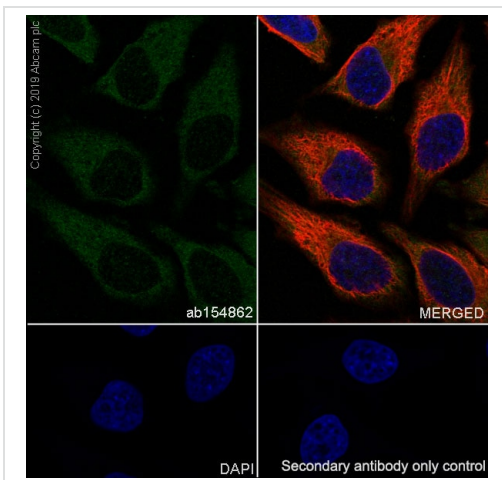
**Predicted band size:** 81 kDa

**Observed band size:** 88 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab154862 observed at 88 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

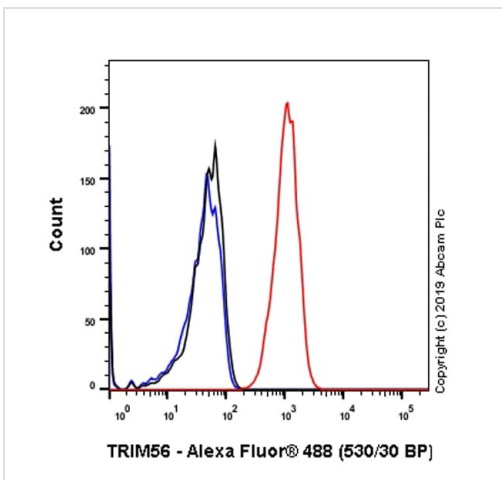
ab154862 Anti-TRIM56 antibody [EPR10583] was shown to specifically react with TRIM56 in wild-type A549 cells. Loss of signal was observed when knockout cell line [ab267063](#) (knockout cell lysate [ab258250](#)) was used. Wild-type and TRIM56 knockout samples were subjected to SDS-PAGE. ab154862 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary

antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



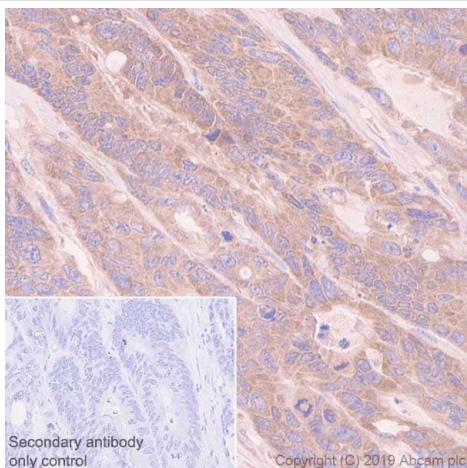
Immunocytochemistry/ Immunofluorescence - Anti-TRIM56 antibody [EPR10583] (ab154862)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling TRIM56 with purified ab154862 at 1/70 dilution (10 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 (2.5 µg/ml) dilution. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



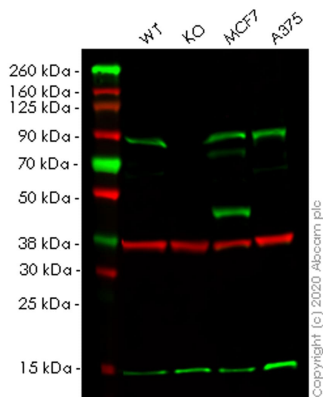
Flow Cytometry (Intracellular) - Anti-TRIM56 antibody [EPR10583] (ab154862)

Intracellular Flow Cytometry analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling TRIM56 with purified ab154862 at 1/70 dilution (10µg/ml) (red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRIM56 antibody [EPR10583] (ab154862)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon cancer tissue sections labeling TRIM56 with purified ab154862 at 1/1000 dilution (0.691 µg/ml). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-TRIM56 antibody [EPR10583] (ab154862)

**All lanes** : Anti-TRIM56 antibody [EPR10583] (ab154862) at 1/1000 dilution

**Lane 1** : Wild-type A549 (Human lung carcinoma cell line) whole cell lysate

**Lane 2** : TRIM56 knockout A549 (Human lung carcinoma cell line) whole cell lysate

**Lane 3** : MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

**Lane 4** : A-375 (Human malignant melanoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes** : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

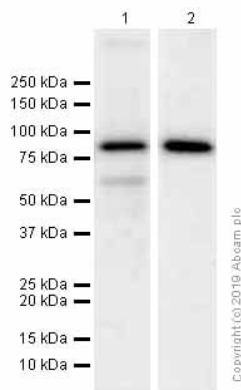
**Predicted band size:** 81 kDa

**Observed band size:** 88 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab154862 observed at 88 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab154862 Anti-TRIM56 antibody [EPR10583] was shown to specifically react with TRIM56 in wild-type A549 cells. Loss of signal

was observed when knockout cell line **ab267062** (knockout cell lysate **ab258249**) was used. Wild-type and TRIM56 knockout samples were subjected to SDS-PAGE. ab154862 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-TRIM56 antibody [EPR10583] (ab154862)

**All lanes** : Anti-TRIM56 antibody [EPR10583] (ab154862) at 1/50000 dilution (Purified)

**Lane 1** : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

**Lane 2** : A375 (Human malignant melanoma epithelial cell) whole cell lysates

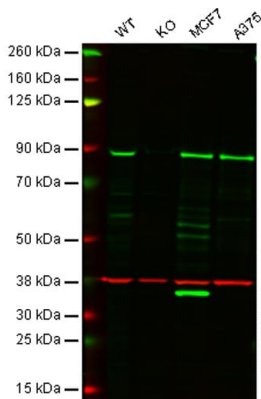
Lysates/proteins at 15 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size:** 81 kDa

**Observed band size:** 81 kDa



Western blot - Anti-TRIM56 antibody [EPR10583] (ab154862)

**Lane 1** : Wild-type HAP1 cell lysate (20 µg)

**Lane 2** : TRIM56 knockout HAP1 cell lysate (20 µg)

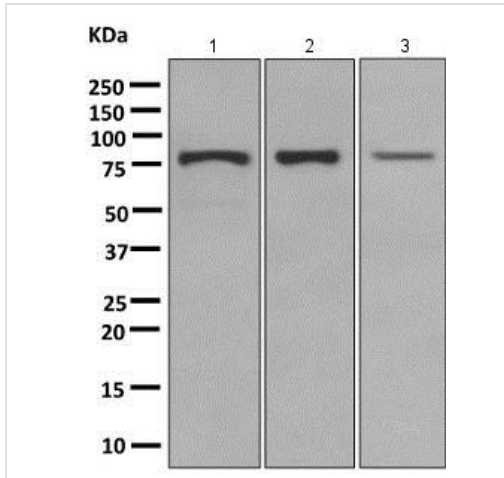
**Lane 3** : MCF7 cell lysate (20 µg)

**Lane 4** : A375 cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab154862 observed at 88 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab154862 (unpurified) was shown to recognize TRIM56 when TRIM56 knockout samples were used, along with additional cross-reactive bands. Wild-type and TRIM56 knockout samples were subjected to SDS-PAGE. ab154862 and **ab8245** (loading control to GAPDH) were both diluted 1/10000 and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-

Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-TRIM56 antibody [EPR10583] (ab154862)

**All lanes** : Anti-TRIM56 antibody [EPR10583] (ab154862) at 1/10000 dilution ((unpurified))

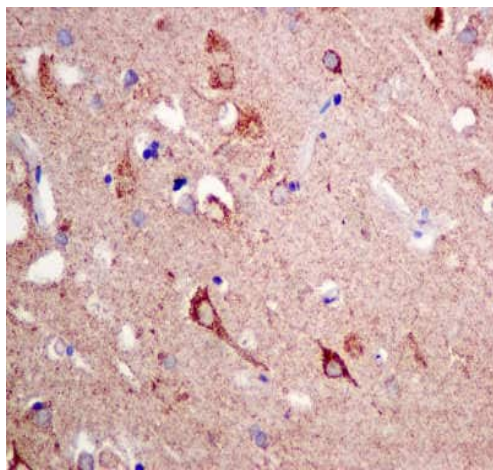
**Lane 1** : HeLa cell lysate

**Lane 2** : A375 cell lysate

**Lane 3** : MCF7 cell lysate

Lysates/proteins at 10 µg per lane.

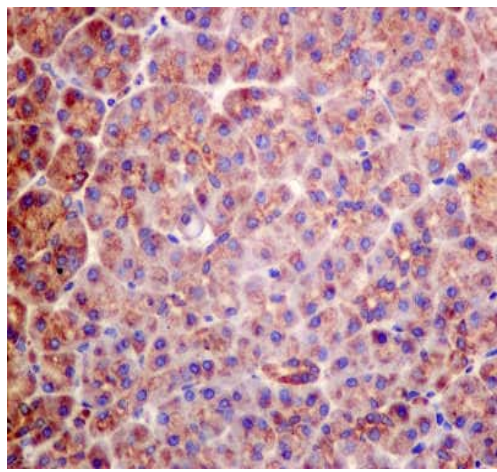
**Predicted band size:** 81 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRIM56 antibody [EPR10583] (ab154862)

Immunohistochemical analysis of paraffin-embedded Human brain tissue labeling TRIM56 with ab154862 (unpurified) at 1/50.

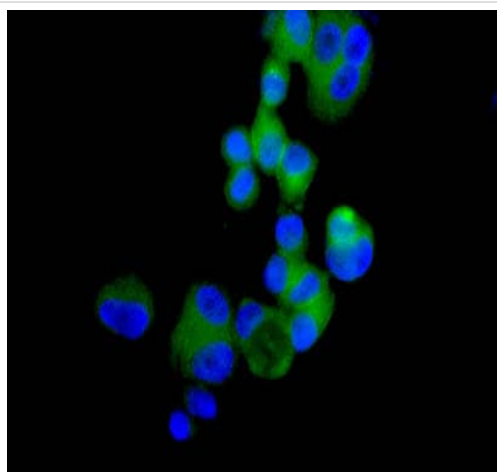
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRIM56 antibody [EPR10583] (ab154862)

Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling TRIM56 with ab154862 (unpurified) at 1/50.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.




Immunocytochemistry/ Immunofluorescence - Anti-TRIM56 antibody [EPR10583] (ab154862)

Immunofluorescent analysis of MCF7 cells labeling TRIM56 with ab154862 (unpurified) at 1/100.



Why choose a recombinant antibody?



- Research with confidence**  
Consistent and reproducible results
- Long-term and scalable supply**  
Recombinant technology
- Success from the first experiment**  
Confirmed specificity
- Ethical standards compliant**  
Animal-free production

Anti-TRIM56 antibody [EPR10583] (ab154862)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors