

**Anti-TRIM59 Antibody**  
**Rabbit polyclonal antibody to TRIM59**  
**Catalog # AP60887****Specification**

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**Anti-TRIM59 Antibody - Product Information**

Application	WB, IF/IC, IHC
Primary Accession	<a href="#">Q8IWR1</a>
Other Accession	<a href="#">Q922Y2</a>
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47114

**Anti-TRIM59 Antibody - Additional Information****Gene ID** 286827**Other Names**

RNF104; TRIM57; TSBF1; Tripartite motif-containing protein 59; RING finger protein 104; Tumor suppressor TSBF-1

**Target/Specificity**

Recognizes endogenous levels of TRIM59 protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IH (1/50 - 1/100), IF/IC (1/100 - 1/500)

IF/IC~~N/A

IHC~~1:100~500

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-TRIM59 Antibody - Protein Information****Name** TRIM59**Synonyms** RNF104, TRIM57, TSBF1**Function**

E3 ubiquitin ligase involved in different processes such as development and immune response (PubMed: <a href="http://www.uniprot.org/citations/22588174" target="\_blank">22588174</a>, PubMed: <a href="http://www.uniprot.org/citations/30231667" target="\_blank">30231667</a>). Serves as a negative regulator for innate immune signaling pathways by suppressing RLR-induced

activation of IRF3/7 and NF-kappa-B via interaction with adapter ECSIT (PubMed:<a href="http://www.uniprot.org/citations/22588174" target="\_blank">22588174</a>). Regulates autophagy through modulating both the transcription and the ubiquitination of BECN1 (PubMed:<a href="http://www.uniprot.org/citations/30231667" target="\_blank">30231667</a>). On the one hand, regulates the transcription of BECN1 through negatively modulating the NF-kappa-B pathway. On the other hand, regulates TRAF6-mediated 'Lys-63'-linked ubiquitination of BECN1, thus affecting the formation of the BECN1-PIK3C3 complex. In addition, mediates 'Lys-48'-linked ubiquitination of TRAF6 and thereby promotes TRAF6 proteasomal degradation (PubMed:<a href="http://www.uniprot.org/citations/30231667" target="\_blank">30231667</a>). Also acts as a critical regulator for early embryo development from blastocyst stage to gastrula through modulating F-actin assembly and WASH1 'Lys-63'- linked ubiquitination (By similarity).

#### Cellular Location

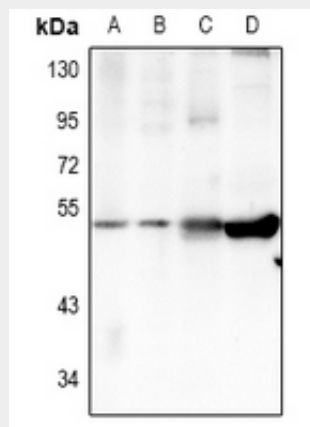
Endoplasmic reticulum membrane; Single-pass membrane protein

#### Anti-TRIM59 Antibody - Protocols

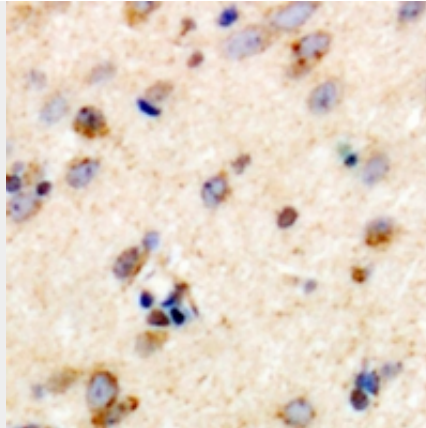
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

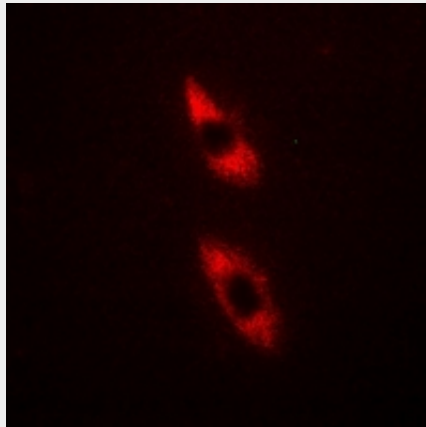
#### Anti-TRIM59 Antibody - Images



Western blot analysis of TRIM59 expression in Jurkat (A), HEK293T (B), rat brain (C), mouse brain (D) whole cell lysates.



Immunohistochemical analysis of TRIM59 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of TRIM59 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with Alexa Fluor 647-conjugated secondary antibody (red) in PBS at room temperature in the dark.

#### **Anti-TRIM59 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human TRIM59. The exact sequence is proprietary.