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KD-Validated Anti-TRIM34 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2178

Specification

KD-Validated Anti-TRIM34 Mouse Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	Q9BYJ4
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Mouse IgG2a**
Calculated MW	**Predicted, 57 kDa, observed, 51 kDa KDa**
Gene Name	**TRIM34**
Aliases	**TRIM34; Tripartite Motif Containing 34; RNF21; Interferon-Responsive Finger Protein 1; E3 Ubiquitin-Protein Ligase TRIM34; IFP1; Ring Finger Protein 21, Interferon-Responsive; Tripartite Motif-Containing 34; RING Finger Protein 21; EC 2.3.2.27; EC 6.3.2**
Immunogen	**Recombinant protein of human TRIM34**

KD-Validated Anti-TRIM34 Mouse Monoclonal Antibody - Additional Information

Gene ID	**53840**

Other Names
E3 ubiquitin-protein ligase TRIM34, 2.3.2.27, Interferon-responsive finger protein 1, RING finger protein 21, TRIM34, IFP1, RNF21

KD-Validated Anti-TRIM34 Mouse Monoclonal Antibody - Protein Information

Name TRIM34

Synonyms IFP1, RNF21

Function
Functions as antiviral protein and contributes to the defense against retroviral infections (PubMed:17156811, PubMed:32282853). Acts as a capsid-specific restriction factor with the help of TRIM5 and prevents infection from non-host-adapted retroviruses (PubMed:32282853). During influenza A virus infection, promotes programmed cell death by targeting ZBP1 for 'Lys-63'-linked polyubiquitination (PubMed:35065966). In turn, promotes ZBP1 recruitment of RIPK3 to mediate virus-induced programmed necrosis (PubMed:35065966). Negatively regulates the function of mitochondria by enhancing mitochondrial depolarization leading to cytochrome c release and mitochondria-dependent apoptosis (PubMed:<a

href="http://www.uniprot.org/citations/31956709" target="_blank">31956709). Also promotes the formation of multinucleated giant cells by means of cell fusion and phagocytosis in epithelial cells (PubMed:31487507).

Cellular Location
Cytoplasm Mitochondrion. Note=Localizes in cytoplasmic bodies together with TRIM5 and incoming HIV-1 capsids during infection.

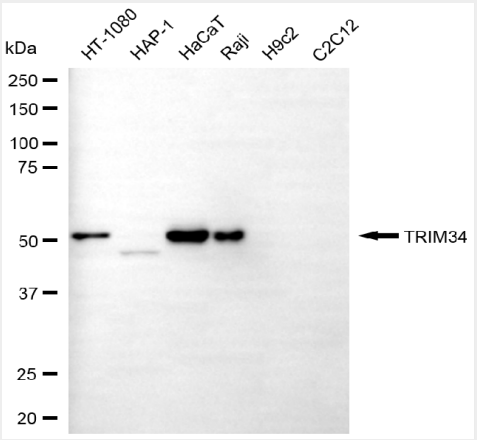
Tissue Location
[Isoform 1]: Is the most abundant form. It is highly expressed in the placenta, spleen, colon and peripheral blood leukocytes.

KD-Validated Anti-TRIM34 Mouse Monoclonal 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 Cytomety
- Cell Culture

KD-Validated Anti-TRIM34 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-TRIM34 antibody (Cat#AGI2178). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-TRIM34 antibody (Cat#AGI2178, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.

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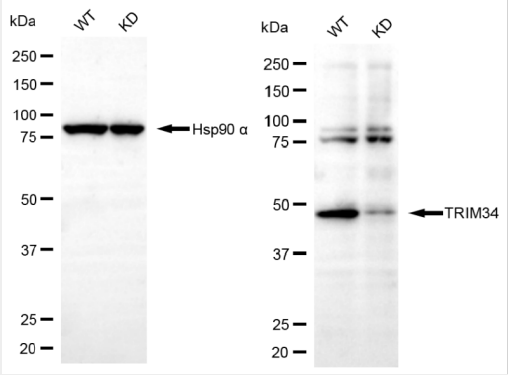
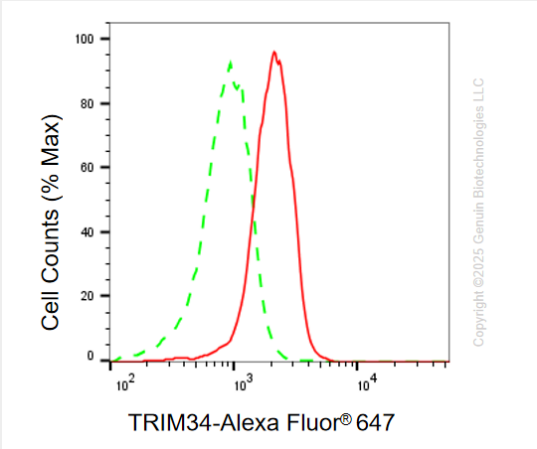


Western blotting analysis using anti-TRIM34 antibody (Cat#AGI2178). TRIM34 expression in wild-type (WT) and TRIM34 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-TRIM34 antibody (Cat#AGI2178, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Flow cytometric analysis of TRIM34 expression in HaCaT cells using anti-TRIM34 antibody (Cat#AGI2178, 1:2,000). Green, isotype control; red, TRIM34.