

KD-Validated Anti-Tripartite Motif Containing 25 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1294**Specification****KD-Validated Anti-Tripartite Motif Containing 25 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	Q14258
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 71 kDa; observed, 71 kDa kDa
Gene Name	TRIM25
Aliases	TRIM25; Tripartite Motif Containing 25; RNF147; EFP; ZNF147; Zinc Finger Protein 147 (Estrogen-Responsive Finger Protein); RING-Type E3 Ubiquitin Transferase TRIM25; Ubiquitin/ISG15-Conjugating Enzyme TRIM25; Tripartite Motif-Containing Protein 25; Estrogen-Responsive Finger Protein; E3 Ubiquitin/ISG15 Ligase TRIM25; RING Finger Protein 147; RING-Type E3 Ubiquitin Transferase; Tripartite Motif Protein TRIM25; Tripartite Motif-Containing 25; Zinc Finger Protein-147; Zinc Finger Protein 147; EC 6.3.2.N3; EC 2.3.2.27; Z147 A synthesized peptide derived from human TRIM25
Immunogen	

KD-Validated Anti-Tripartite Motif Containing 25 Rabbit Monoclonal Antibody - Additional Information

Gene ID	7706
Other Names	E3 ubiquitin/ISG15 ligase TRIM25, 6.3.2.n3, Estrogen-responsive finger protein, RING finger protein 147, RING-type E3 ubiquitin transferase, 2.3.2.27, RING-type E3 ubiquitin transferase TRIM25, Tripartite motif-containing protein 25, Ubiquitin/ISG15-conjugating enzyme TRIM25, Zinc finger protein 147, TRIM25, EFP {ECO:0000303 PubMed:8248217}, RNF147, ZNF147

KD-Validated Anti-Tripartite Motif Containing 25 Rabbit Monoclonal Antibody - Protein Information**Name** TRIM25**Synonyms** EFP {ECO:0000303|PubMed:8248217}, RNF147

Function

Functions as a ubiquitin E3 ligase and as an ISG15 E3 ligase (PubMed:16352599). Involved in innate immune defense against viruses by mediating ubiquitination of RIGI and IFIH1 (PubMed:17392790, PubMed:29357390, PubMed:30193849, PubMed:31710640, PubMed:33849980, PubMed:36045682). Mediates 'Lys-63'-linked polyubiquitination of the RIGI N-terminal CARD-like region and may play a role in signal transduction that leads to the production of interferons in response to viral infection (PubMed:17392790, PubMed:23950712). Mediates 'Lys-63'-linked polyubiquitination of IFIH1 (PubMed:30193849). Promotes ISGylation of 14-3-3 sigma (SFN), an adapter protein implicated in the regulation of a large spectrum signaling pathway (PubMed:16352599, PubMed:17069755). Mediates estrogen action in various target organs (PubMed:22452784). Mediates the ubiquitination and subsequent proteasomal degradation of ZFHX3 (PubMed:22452784). Plays a role in promoting the restart of stalled replication forks via interaction with the KHDC3L-OOEP scaffold and subsequent ubiquitination of BLM, resulting in the recruitment and retention of BLM at DNA replication forks (By similarity). Plays an essential role in the antiviral activity of ZAP/ZC3HAV1; an antiviral protein which inhibits the replication of certain viruses. Mechanistically, mediates 'Lys-63'-linked polyubiquitination of ZAP/ZC3HAV1 that is required for its optimal binding to target mRNA (PubMed:28060952, PubMed:28202764). Also mediates the ubiquitination of various substrates implicated in stress granule formation, nonsense-mediated mRNA decay, nucleoside synthesis and mRNA translation and stability (PubMed:36067236).

Cellular Location

Cytoplasm. Cytoplasm, Stress granule. Nucleus {ECO:0000250|UniProtKB:Q61510}

Tissue Location

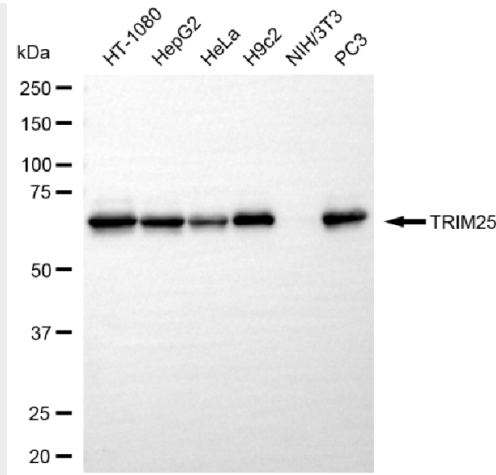
Expressed in breast tumors (at protein level). Ubiquitous.

KD-Validated Anti-Tripartite Motif Containing 25 Rabbit Monoclonal Antibody - Protocols

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

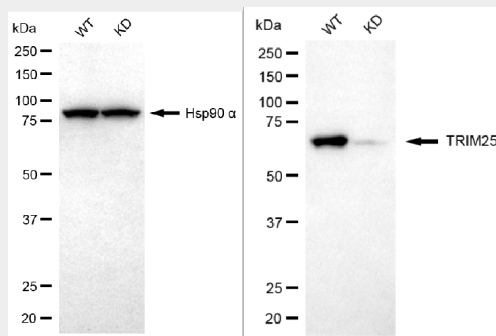
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Tripartite Motif Containing 25 Rabbit Monoclonal Antibody - Images



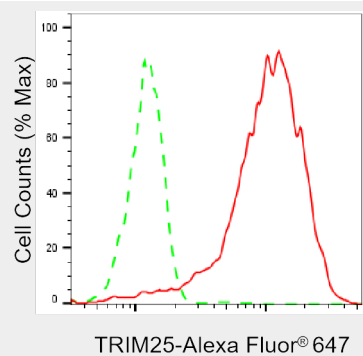
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Western blotting analysis using anti-TRIM25 antibody (Cat#AGI1294). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-TRIM25 antibody (Cat#AGI1294, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



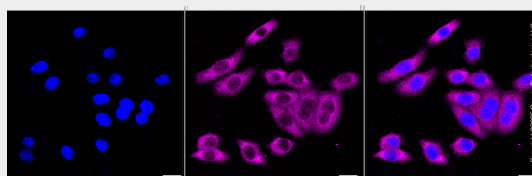
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Western blotting analysis using anti-TRIM25 antibody (Cat#AGI1294). TRIM25 expression in wild-type (WT) and TRIM25 knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-TRIM25 antibody (Cat#AGI1294, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of TRIM25 expression in HepG2 cells using anti-TRIM25 antibody (Cat#AGI1294, 1:2,000). Green, isotype control; red, TRIM25.



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Immunocytochemical staining of HepG2 cells with anti-TRIM25 antibody (Cat#AGI1294, 1:1,000). Nuclei were stained blue with DAPI; TRIM25 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 μ m.