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

Rabbit monoclonal antibody
Catalog # AGI1294

Product Information

Application	WB, FC, ICC
Primary Accession	Q14258
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB2695
Calculated MW	70973
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
Immunogen	A synthesized peptide derived from human TRIM25

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

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, PubMed:40719442). 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 retainment 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). Participates in autophagy suppression by ubiquitinating and degrading p62/SQSTM1 (PubMed:40542578).
Cellular Location	Cytoplasm. Cytoplasm, Stress granule. Nucleus {ECO:0000250|UniProtKB:Q61510}
Tissue Location	Expressed in breast tumors (at protein level). Ubiquitous.

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