

Anti-TRIM25 Antibody

Catalog # AP96093

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	Q14258
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	70973

Additional Information

Gene ID	7706
Other Names	EFP; RNF147; ZNF147; E3 ubiquitin/ISG15 ligase TRIM25; Estrogen-responsive finger protein; RING finger protein 147; Tripartite motif-containing protein 25; Ubiquitin/ISG15-conjugating enzyme TRIM25; Zinc finger protein 147
Target/Specificity	Recombinant fusion protein of human TRIM25 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG2b. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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 ZFX3 (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](#)).

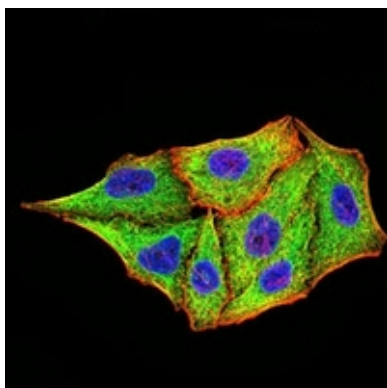
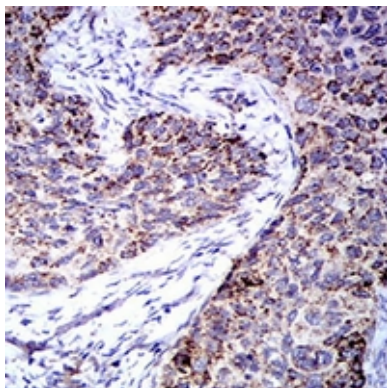
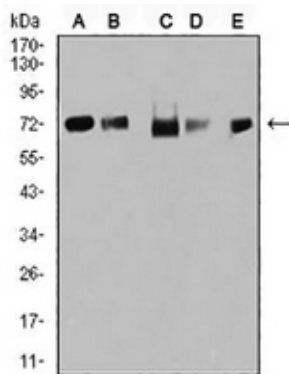
Cellular Location

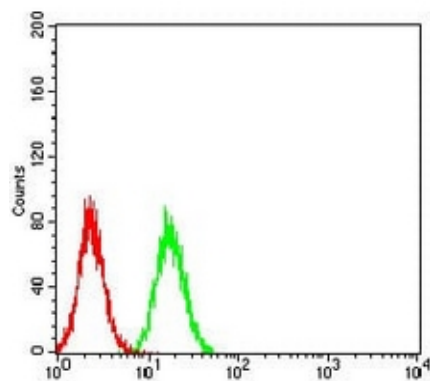
Cytoplasm. Cytoplasm, Stress granule. Nucleus
{ECO:0000250|UniProtKB:Q61510}

Tissue Location

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

Images





Flow cytometric analysis of HeLa cells using Anti-TRIM25 Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.