

TRIM25 (D9T7G) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	72	Rabbit IgG	#Q14258	7706

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

TRIM25 (D9T7G) Rabbit mAb recognizes endogenous levels of total TRIM25 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln146 of human TRIM25 protein.

Background

TRIM25, also termed Estrogen-responsive Finger Protein (EFP), is a member of the tripartite motif-containing (TRIM) family of proteins, characterized by the presence of a RING domain, one or two B-box motifs, and a coiled-coil region (1). TRIM25 was first identified in a search for estrogen-responsive genes (2), and studies have subsequently shown TRIM25 to be overexpressed in many breast cancer tumors (3). A potentially oncogenic role for TRIM25 was suggested by studies showing that suppression of TRIM25 expression inhibited growth of MCF7 cells *in vitro* and in mouse xenograft models (4). Functional studies largely suggest that TRIM25 functions as a ubiquitin E3 or ISG15 E3 ligase. For example, TRIM25 was shown to induce K63-linked ubiquitination of Rig-I, resulting in Rig-I-mediated activation of downstream signaling cascades that drive the host antiviral innate immune response (5). Notably, it was reported that the influenza A virus non-structural protein 1 inhibits TRIM25-mediated ubiquitination of Rig-I, which may have evolved as a mechanism to evade the host innate immune response (6).

Background References

1. Meroni, G. and Diez-Roux, G. (2005) *Bioessays* 27, 1147-57.
2. Inoue, S. et al. (1993) *Proc Natl Acad Sci U S A* 90, 11117-21.
3. Suzuki, T. et al. (2005) *Clin Cancer Res* 11, 6148-54.
4. Ueyama, K. et al. (2010) *Cancer Gene Ther* 17, 624-32.
5. Gack, M.U. et al. (2007) *Nature* 446, 916-920.
6. Gack, M.U. et al. (2009) *Cell Host Microbe* 5, 439-49.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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