

TRIM25 Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 72	Source/Isotype: Rabbit	UniProt ID: #Q14258	Entrez-Gene Id: 7706
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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 and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

TRIM25 Antibody recognizes endogenous levels of total TRIM25 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln146 of human TRIM25 protein. Antibodies are purified by protein A and peptide affinity chromatography.

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

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