

#13773 Store at -20C

TRIM25 (D9T7G) Rabbit mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	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 <i>in vitro</i> 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	<ol style="list-style-type: none"> 1. Meroni, G. and Diez-Roux, G. (2005) <i>Bioessays</i> 27, 1147-57. 2. Inoue, S. et al. (1993) <i>Proc Natl Acad Sci U S A</i> 90, 11117-21. 3. Suzuki, T. et al. (2005) <i>Clin Cancer Res</i> 11, 6148-54. 4. Ueyama, K. et al. (2010) <i>Cancer Gene Ther</i> 17, 624-32. 5. Gack, M.U. et al. (2007) <i>Nature</i> 446, 916-920. 6. Gack, M.U. et al. (2009) <i>Cell Host Microbe</i> 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	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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