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## TRIM33 (D7U4F) Rabbit mAb (PE Conjugate)

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

<b>Applications:</b> FC-FP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9UPN9	<b>Entrez-Gene Id:</b> 51592
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### Product Usage Information

#### Application

Flow Cytometry (Fixed/Permeabilized)

#### Dilution

1:50

### Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

### Specificity/Sensitivity

TRIM33 (D7U4F) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total TRIM33 protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln609 of human TRIM33 protein.

### Description

This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated TRIM33 (D7U4F) Rabbit mAb #90051.

### Background

The transcriptional intermediary factor 1 (TIF1) family represents a group of proteins with multiple histone-binding domains. In humans, this family comprises four proteins, TIF1 $\alpha$ /TRIM24, TIF1 $\beta$ /TRIM28/KAP1, TIF1 $\gamma$ /TRIM33/Ectodermin, and TIF1 $\delta$ /TRIM66, which are characterized by an amino-terminal tripartite motif (TRIM) domain consisting of a RING domain, two B boxes, a coiled-coil domain, and a carboxy-terminal PHD finger and bromodomain (1). Despite their similar overall structure, these proteins have diverse roles in transcriptional regulation. TIF1 $\alpha$  functions as a ligand-dependent nuclear receptor coregulator and more recently has been implicated in regulating p53 stability (2). TIF1 $\beta$  is an intrinsic component of the N-CoR1 corepressor complex and the NuRD nucleosome-remodeling complex (3) and functions as a corepressor for Kruppel-associated box (KRAB) zinc-finger transcription factors (4). Furthermore, TIF1 $\beta$  promotes heterochromatin-mediated gene silencing formation by serving as a cofactor for heterochromatin protein HP1 (5). TIF1 $\delta$  expression is restricted to the testis and has been shown to interact with HP1 $\gamma$  (6).

### Background References

1. Meroni, G. and Diez-Roux, G. (2005) *Bioessays* 27, 1147-57.
2. Jain, A.K. and Barton, M.C. (2009) *Cell Cycle* 8, 3668-74.
3. Underhill, C. et al. (2000) *J Biol Chem* 275, 40463-70.
4. Schultz, D.C. et al. (2001) *Genes Dev* 15, 428-43.
5. Groner, A.C. et al. (2010) *PLoS Genet* 6, e1000869.
6. Khetchoumian, K. et al. (2004) *J Biol Chem* 279, 48329-41.

### Species Reactivity

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

### Applications Key

**FC-FP:** Flow Cytometry (Fixed/Permeabilized)

### Cross-Reactivity Key

**H:** Human

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