

**TRIM37 (D7U2L) Rabbit mAb**

**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

<b>Applications:</b> W, FC-FP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 135	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O94972	<b>Entrez-Gene Id:</b> 4591
----------------------------------	-------------------------	-----------------------------------	-------------------------	--------------------------------------	-------------------------------	--------------------------------

**Product Usage Information****Application**

Western Blotting  
Flow Cytometry (Fixed/Permeabilized)

**Dilution**

1:1000  
1:800

**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**

TRIM37 (D7U2L) Rabbit mAb recognizes endogenous levels of total TRIM37 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His511 of human TRIM37 protein.

**Background**

Tripartite motif containing protein 37 (TRIM37, also known as MUL1) is a member of the tripartite motif (TRIM) family whose members contain a RING domain, a B-box, and a coiled-coil region (together called RBCC). TRIM37 was initially described as the defining truncation mutation in mulibrey nanism (1). An E3 ubiquitin ligase, TRIM37 is responsible for the monoubiquitination of histone H2A at Lys119, and is amplified in over 40% of breast cancers (2,3). TRIM37 interacts with polycomb group proteins EZH2 and SUZ12, and contributes to histone H3K27 lysine tri-methylation and subsequent silencing of tumor suppressor genes (3). Oncogenic activity of TRIM37 has also been reported in pancreatic, hepatic, and colorectal cancers (4-7).

**Background References**

1. Avela, K. et al. (2000) *Nat Genet* 25, 298-301.
2. Kallijärvi, J. et al. (2005) *Exp Cell Res* 308, 146-55.
3. Bhatnagar, S. et al. (2014) *Nature* 516, 116-20.
4. Jiang, J. et al. (2015) *Biochem Biophys Res Commun* 464, 1120-7.
5. Jiang, J. et al. (2016) *Tumour Biol* 37, 2629-34.
6. Zhao, P. et al. (2017) *Oncol Res* 25, 115-122.
7. Hu, C.E. and Gan, J. (2017) *Mol Med Rep* 15, 1057-1062.

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

**Cross-Reactivity Key**

**H:** Human

**Trademarks and Patents**

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

Alexa Fluor is a registered trademark of Life Technologies Corporation.

All other trademarks are the property of their respective owners. Visit [cellsignal.com/trademarks](http://cellsignal.com/trademarks) for more information.

**Limited Uses**

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any

purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.