

TRIM21 (D1O1D) 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

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Applications: W, IP, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #P19474	Entrez-Gene Id: 6737
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50
1:100 - 1:400

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

TRIM21 (D1O1D) Rabbit mAb recognizes endogenous levels of total TRIM21 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val309 of human TRIM21 protein.

Background

Tripartite motif-containing protein 21 (TRIM21) is a cytosolic antiviral protein that is induced by interferons (IFNs) and acts as a cytosolic IgG receptor (1,2). TRIM21 is an activator of the innate immune system and targets antibody-bound virions to the proteasome via its E3 ubiquitin ligase activity, leading to degradation of the virions in the cytosol (3,4). Interestingly, TRIM21 has also been shown to negatively regulate pathogen-induced IFN production through the polyubiquitin-mediated degradation of multiple targets, including IRF3, IRF7, and DDX41 (5-7).

Background References

1. Keeble, A.H. et al. (2008) *Proc Natl Acad Sci USA* 105, 6045-50.
2. Sjöstrand, M. et al. (2013) *J Immunol* 191, 3753-63.
3. McEwan, W.A. et al. (2013) *Nat Immunol* 14, 327-36.
4. Mallery, D.L. et al. (2010) *Proc Natl Acad Sci USA* 107, 19985-90.
5. Higgs, R. et al. (2008) *J Immunol* 181, 1780-6.
6. Young, J.A. et al. (2011) *J Biol Chem* 286, 6521-31.
7. Zhang, Z. et al. (2013) *Nat Immunol* 14, 172-8.

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 **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human

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