

## STING (D1V5L) 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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<b>Applications:</b> W, W-S, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 33, 35	Source/Isotype: Rabbit IgG	UniProt ID: #Q3TBT3	Entrez-Gene Id: 72512
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation	33, 33	Kabbit IgG	#QSTB13  Dilution 1:1000 1:10 - 1:50 1:50	72512
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		STING (D1V5L) Rabbit mAb recognizes endogenous levels of total STING protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to mouse STING protein.				
Background		Stimulator of interferon genes (STING, TMEM173, MITA) is a transmembrane adaptor protein that is a critical component of the cellular innate immune response to pathogenic cytoplasmic DNA (1,2). STING is a ubiquitously expressed protein found predominantly in the ER (1). The enzyme cGAMP synthase (CGAS) produces the second messenger cyclic-GMP-AMP (cGAMP) in response to cytoplasmic DNA (3,4). cGAMP binds and activates STING (3,4). In addition, detection of cytoplasmic DNA by nucleic acid sensors, including DDX41 or IFI16, results in STING activation (5,6). Following activation, STING translocates with TBK1 to perinuclear endosomes (7). The TBK1 kinase phosphorylates and activates interferon regulatory factors (IRFs) and NF-kB, which leads to the induction of type I interferon and other immune response genes (1,2,7).				
Background References		1. Ishikawa, H. and Barber, G.N. (2008) <i>Nature</i> 455, 674-8. 2. Zhong, B. et al. (2008) <i>Immunity</i> 29, 538-50. 3. Sun, L. et al. (2013) <i>Science</i> 339, 786-91. 4. Wu, J. et al. (2013) <i>Science</i> 339, 826-30. 5. Zhang, Z. et al. (2011) <i>Nat Immunol</i> 12, 959-65. 6. Unterholzner, L. et al. (2010) <i>Nat Immunol</i> 11, 997-1004. 7. Ishikawa, H. et al. (2009) <i>Nature</i> 461, 788-92.				
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 $\circledR$ 20 at 4°C with gentle shaking, overnight.				
Applications Key		<b>W:</b> Western Blotting <b>W-S:</b> Simple Western <sup>™</sup> <b>IP:</b> Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				

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