

Phospho-STING (Ser365) (D1C4T) Rabbit



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Applications: IF-IC	Reactivity:	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q3TBT3	Entrez-Gene Id: 72512
Product Usage Information		Application Immunofluorescence (Ir	nmunocytochemistry)		Dilution 1:50
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.			
		For a carrier free (BSA ar	nd azide free) version of t	his product see prod	uct #51865.
Specificity/Sensitivity		Phospho-STING (Ser365) (D1C4T) Rabbit mAb recognizes endogenous levels of STING protein only when phosphorylated at Ser365.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser365 of mouse STING protein.			
Background	Stimulator of interferon genes (STING, TMEM173, MITA) is a transmembrane adaptor protein that is critical component of the cellular innate immune response to pathogenic cytoplasmic DNA (1,2). ST is a ubiquitously expressed protein found predominantly in the ER (1). The enzyme cGAMP synthas (cGAS) produces the second messenger cyclic-GMP-AMP (cGAMP) in response to cytoplasmic DNA 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 activate interferon regulatory factors (IRFs) and NF-kB, which leads to the induction of type I interferon and other immune response genes (1,2,7). Following binding of cyclic dinucleotides, STING is phosphorylated by TBK1 at Ser366 (Ser365 in mouse), leading to IRF-3 activation and type I interferon upregulation (8).				
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. 8. Liu, S. et al. (2015) <i>Science</i> 347, aaa2630.				(0).	
Species Reactivity		Species reactivity is dete	rmined by testing in at le	ast one approved ap	plication (e.g., western blot).

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Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

M: Mouse

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