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Phospho-STING (Ser366) (D7C3S) Rabbit



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit IgG	UniProt ID: #Q86WV6	Entrez-Gene Id: 340061		
Product Usage Information		Application Western Blotting		Dilution 1:1000				
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/Sen	sitivity		ospho-STING (Ser366) (D7C3S) Rabbit mAb recognizes endogenous levels of STING protein only nen phosphorylated at Ser366.					
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser366 of human 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-κB, which leads to the induction of type I interferon and other immune response genes (1,2,7).						
			wing binding of cyclic dinucleotides, STING is phosphorylated by TBK1 at Ser366 (Ser365 in se), leading to IRF-3 activation and type I interferon upregulation (8).					
Background Re	eferences	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.						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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 K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human						
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