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Phospho-STING (Ser365) (D8F4W) Rabbit



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Applications: W	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 41	Source/Isotype: Rabbit IgG	UniProt ID: #Q3TBT3	Entrez-Gene Id: 72512		
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 aliguot the antibody.						
Specificity/Sensitivity		Phospho-STING (Ser365) (D8W4F) Rabbit mAb recognizes endogenous levels of STING protein only when phosphorylated at Ser365.						
Source / Purific	e / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding residues surrounding Ser365 of mouse STING protein.				prresponding to			
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).						
		Following binding of o mouse), leading to IRI		5 (Ser365 in				
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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	M: Mouse						
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