

## 13647

## STING (D2P2F) Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> W, IP, IHC-Bond, IHC-P	Reactivity: H M Hm	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 33, 35	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q86WV6	Entrez-Gene Id: 340061	
Product Usage Information		Application			Dilution		
		Western Blotting			1:1000		
		Immunoprecipitation			1:50		
		IHC Leica Bond			1:100 - 1:	400	
		Immunohistochemistry (Paraffin)			1:50 - 1:200		
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.					
		For a carrier free (BSA and azide free) version of this product see product #67733.					
Specificity/Sensitivity		STING (D2P2F) Rabbit mAb recognizes endogenous levels of total STING protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu328 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).					
Background Re	eferences	<ol> <li>Ishikawa, H. and Barber, G.N. (2008) <i>Nature</i> 455, 674-8.</li> <li>Zhong, B. et al. (2008) <i>Immunity</i> 29, 538-50.</li> <li>Sun, L. et al. (2013) <i>Science</i> 339, 786-91.</li> <li>Wu, J. et al. (2013) <i>Science</i> 339, 826-30.</li> <li>Zhang, Z. et al. (2011) <i>Nat Immunol</i> 12, 959-65.</li> <li>Unterholzner, L. et al. (2010) <i>Nat Immunol</i> 11, 997-1004.</li> <li>Ishikawa, H. et al. (2009) <i>Nature</i> 461, 788-92.</li> </ol>					

**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-Bond: IHC Leica Bond IHC-P: Immunohistochemistry

(Paraffin)

Cross-Reactivity Key H: Human M: Mouse Hm: Hamster

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