## STING (D2P2F) Rabbit mAb



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

<b>Applications:</b> WB, IP, IHC-Bond, IHC- P	Reactivity: H M Hm	Sensitivity: Endogenous	<b>MW (kDa):</b> 33, 35	Source/Isotype: Rabbit IgG	UniProt ID: #Q86WV6	Entrez-Gene Id: 340061	
Product Usage Information	Ap	Application			Dilution		
information	We	stern Blotting			1:1000		
	Imi	nunoprecipitation			1:50		
	IHO	IHC Leica Bond			1:100 - 1:400		
	Imi	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 $-20^{\circ}$ C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #67733.					
Specificity / Sensitivity STING (D2P2F) Rabbit mAb recognize				es endogenous levels of total STING protein.			
Source / Purification  Monoclonal antibody is produced by immunizi residues surrounding Glu328 of human STINO				nizing animals with a synthetic peptide corresponding to TNG protein.			
Background	criti a ut proc cGA sen tran inte	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 Refe	2. Z 3. S 4. W 5. Z 6. U	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® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IP: Immunoprecipitation IHC-Bond: IHC Leica Bond

**IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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## **Limited Uses**

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