

:80231

STING (D2P2F) Rabbit mAb (Biotinylated)



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

Applications: W		ensitivity: ndogenous	MW (kDa): 33, 35	Source/Isotype: Rabbit IgG	UniProt ID: #Q86WV6	Entrez-Gene Id: 340061
Product Usage Information	• •	cation ern Blotting			Dilution 1:1000	
Storage				nM sodium phosphate (d 50% glycerol. Store at	, ,	•
Specificity/Sensitivity		STING (D2P2F) Rabbit mAb (Biotinylated) 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.				
Description		This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated STING (D2P2F) Rabbit mAb #13647.				
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).				
Background Re	2. Zho 3. Sun 4. Wu, 5. Zha 6. Unt	 Ishikawa, H. and Barber, G.N. (2008) Nature 455, 674-8. Zhong, B. et al. (2008) Immunity 29, 538-50. Sun, L. et al. (2013) Science 339, 786-91. Wu, J. et al. (2013) Science 339, 826-30. Zhang, Z. et al. (2011) Nat Immunol 12, 959-65. Unterholzner, L. et al. (2010) Nat Immunol 11, 997-1004. Ishikawa, H. et al. (2009) Nature 461, 788-92. 				
		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.				

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

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

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KARPAS cell line source: Dr. Abraham Karpas at the University of Cambridge.

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