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ក្តុ cGAS (D1D3G) Rabbit mAb (Biotinylated)



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit IgG	UniProt ID: #Q8N884	Entrez-Gene Id: 115004		
Product Usage Information	2	Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 136 mM NaCl, 2.6 mM KCI, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	cGAS (D1D3G) Rabbit mAb (Biotinylated) recognizes endogenous levels of total cGAS protein.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala19 of human cGAS protein.				prresponding to		
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 cGAS (D1D3G) Rabbit mAb #15102.						
Background		Cyclic GMP-AMP synthase (cGAS, MB21D1) is an antiviral enzyme that produces the second messenger cyclic-GMP-AMP (cGAMP) in response to cytoplasmic DNA (1,2). The cGAS protein acts as a cytosolic DNA sensor that binds DNA and produces the cGAMP second messenger from ATP and GTP (1,2). cGAMP binds to and activates STING, a transmembrane adaptor protein that is a critical component of the cellular innate immune response to pathogenic cytoplasmic DNA (1-4). STING is ubiquitously expressed and found predominantly in the ER (3). Following activation, STING translocates with TBK1 to perinuclear endosomes (5). 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 (3-5).						
Background Ro	eferences	1. Sun, L. et al. (2013) <i>Science</i> 339, 786-91. 2. Wu, J. et al. (2013) <i>Science</i> 339, 826-30. 3. Ishikawa, H. and Barber, G.N. (2008) <i>Nature</i> 455, 674-8. 4. Zhong, B. et al. (2008) <i>Immunity</i> 29, 538-50. 5. Ishikawa, H. et al. (2009) <i>Nature</i> 461, 788-92.						
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	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-Reactivi	ty Key	H: Human						
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