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#8605

SINTBAD (D1A5) Rabbit mAb

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

Applications: W, IP	Sensitivity: Endogenous	MW (kDa): 78-80	Source/Isotype: Rabbit IgG	UniProt ID: #A7MCY6	Entrez-Gene Id: 9755
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Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
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 aliquot the antibody.	
Specificity/Sensitivity	SINTBAD (D1D5) Rabbit mAb recognizes endogenous levels of total SINTBAD protein.	
Species predicted to react based on 100% sequence homology	Monkey, Bovine	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu55 of human SINTBAD protein.	
Background	SINTBAD, identified based on homology to NAP1, is an adaptor protein for TBK1 and IKKε, two related kinases that play a pivotal role in innate immune response (1). These kinases trigger the phosphorylation and subsequent activation of the transcription factor IRF-3, resulting in gene regulation required for immune responses (2). The precise mechanism by which SINTBAD activates TBK1 and IKKε is still unclear. Expression of a central region of SINTBAD termed a TBD (TBK binding domain) can function as a dominant negative protein and interfere with IRF-3 activation. SINTBAD and NAP1 can also bind to NDP52, a protein that associates with poly-ubiquitinated proteins, such as those produced on the surfaces of bacteria, and can trigger autophagy (3).	
Background References	<ol style="list-style-type: none"> 1. Ryzhakov, G. and Randow, F. (2007) <i>EMBO J</i> 26, 3180-90. 2. Fitzgerald, K.A. et al. (2003) <i>Nat Immunol</i> 4, 491-6. 3. Thurston, T.L. et al. (2009) <i>Nat Immunol</i> 10, 1215-21. 	
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	
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