

#8605 Store at -20C

## SINTBAD (D1A5) Rabbit mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R	Endogenous	78-80	Rabbit IgG	#A7MCY6	9755

<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:50
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	SINTBAD (D1D5) Rabbit mAb recognizes endogenous levels of total SINTBAD protein.	
<b>Species predicted to react based on 100% sequence homology:</b>	Monkey, Bovine	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu55 of human SINTBAD protein.	
<b>Background</b>	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).	
<b>Background References</b>	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.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IP:</b> Immunoprecipitation
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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