## Rig-I (D14G6) Rabbit mAb





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Applications: W, W-S, IP	<b>Reactivity:</b> H M R Hm Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 102	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #O95786	Entrez-Gene Id: 23586	
Product Usage Information	e	Application Western Blotting Simple Western™ Immunoprecipitation			<b>Dilution</b> 1:1000 1:10 - 1:50 1:50		
Storage				ö), 150 mM NaCl, 100 μg/ ot aliquot the antibody.	'ml BSA, 50% glycer	ol and less than	
Specificity/Sensitivity		Rig-I (D14G6) Rabbit mAb detects endogenous levels of total Rig-I protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues Lys652 of human Rig-I.					
Background		detecting proteins in t inducible gene I) and I transcription of type I sites that recognize th (ssRNA), double-strand different cell compartr membranes and helica LPS, IFN, and viral infe detects viral dsRNA an triggering downstrean triphosphate end not s distinct set of viruses ( signaling and IFN proc	he Toll-like recepto MDA-5 (melanoma interferons (IFN) ar e molecular pattern ded RNA (dsRNA), a ments; TLRs (i.e. TLl ases are localized to ction (4,5). Both Rig d two amino-termi n signaling (4-7). Ri seen in host RNA (8 (10,11). The CARD d duction, is recruited	e combination of paralle r (TLR) family and RNA h differentiation-associate nd antiviral enzymes (1-3 ns of different virus type nd glycoproteins. These R3, TLR7, TLR8, and TLR9 o the cytoplasm. Rig-I ex g-I and MDA-5 share a D nal caspase recruitment g-I binds both dsRNA an i,9). Though structurally omain of the helicases, I to the CARD domain of ivation of NF-кB, TBK1/II	elicases, such as Rig d antigen 5), which 3). TLRs and helicase s, including DNA, si antiviral proteins a 4) are expressed on pression is induced ExD/H-box helicase domains (CARD) th d viral ssRNA that c related, Rig-I and M which is sufficient to the MAVS/VISA/Car	g-I (retinoic acid- promote the proteins contain ngle-stranded RNA re found in endosomal by retinoic acid, domain that at are required for ontains a 5'- IDA-5 detect a o generate dif/IPS-1	
Background R	References		opp, J. (2006) <i>Mol C</i> Locarnini, S.A. (200 002) <i>Biochem Biop</i> 0) <i>Microb Pathog 2</i> (2005) <i>J Immunol</i> 1 (2004) <i>Nat Immunol</i> 006) <i>Science</i> 314, 9 006) <i>Science</i> 314, 9 6) <i>Nature</i> 441, 101- 07) <i>Virology</i> 359, 19 005) <i>Nature</i> 437, 11 6) <i>Mol Cell</i> 19, 727-4 05) <i>Nat Immunol</i> 6,	ell 22, 561-9. 7) Immunol Cell Biol 85, hys Res Commun 292, 2 8, 267-78. 75, 2851-8. ol 5, 730-7. 94-7. 97-1001. 5. 10-200. 67-72. 0. 981-8.			
Species React	ivity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody ir	1 5% w/v BSA, 1X	
Applications <b>k</b>	(ey	W: Western Blotting W	<b>/-S:</b> Simple Westerr	ı™ <b>IP:</b> Immunoprecipitat	ion		

Cross-Reactivity Key	H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey
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