## TREX1 (D8E2O) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:		
VV, 1P	п	Endogenous		Rabbit Igg	#Q9N502	11277		
Product Usage		Application	Application Dilution					
Information		Western Blotting			1:1000			
•					1.200			
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/Sen	sitivity	TREX1 (D8E2O) Rabbit mAb recognizes endogenous levels of total TREX1 protein.						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro298 of human TREX1 protein.						
Background		TREX1 is a broadly expressed 3' to 5' exonuclease that acts on single-stranded DNA (ssDNA) to negatively regulate the interferon-stimulatory DNA (ISD) response (1-4). In humans, there are three TREX1 isoforms generated through alternative splicing with predicted molecular weights of 32, 33, and 39 kDa (2). The transcript for the 33 kDa isoform is the most abundant (2). Mice deficient in TREX1 accumulate intracellular ssDNA, which triggers the ISD response and eventually lethal autoimmunity (3,4). Mutations in TREX1 are associated with autoimmune diseases including Aicardi-Goutieres syndrome and systemic lupus erythematosus (5,6). In addition, TREX1 prevents the cell-intrinsic innate immune response to human immunodeficiency virus (HIV) by digesting excess HIV DNA that would normally trigger induction of type I interferon (7).						
Background Re	ferences	<ol> <li>Mazur, D.J. and Perrino, F.W. (1999) <i>J Biol Chem</i> 274, 19655-60.</li> <li>Mazur, D.J. and Perrino, F.W. (2001) <i>J Biol Chem</i> 276, 14718-27.</li> <li>Yang, Y.G. et al. (2007) <i>Cell</i> 131, 873-86.</li> <li>Stetson, D.B. et al. (2008) <i>Cell</i> 134, 587-98.</li> <li>Crow, Y.J. et al. (2006) <i>Nat Genet</i> 38, 917-20.</li> <li>Lee-Kirsch, M.A. et al. (2007) <i>Nat Genet</i> 39, 1065-7.</li> <li>Yan, N. et al. (2010) <i>Nat Immunol</i> 11, 1005-13.</li> </ol>						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	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 Ke	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	у Кеу	H: Human						
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