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Toll-like Receptor 9 (D9M9H) XP[®] Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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

Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NR96	Entrez-Gene Id: 54106				
Product Usage Information		Application Flow Cytometry (Fixed/Permeabilized)			Dilution 1:50				
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.							
Specificity/Sensit	ivity	Toll-like Receptor 9 (D9M9H) XP [®] Rabbit mAb (Alexa Fluor [®] 488 Conjugate) recognizes endogenous levels of total Toll-like receptor 9 protein. This antibody is predicted to recognize known full-length isoforms of Toll-like receptor 9, but not cleaved Toll-like receptor 9 protein. Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to							
Source / Purificat	ion	Monoclonal antibody is p residues surrounding Pro	produced by immunizing a 0450 of human Toll-like re	It mAb (Alexa Fluor [®] 488 Conjugate) recognizes endogenous n. This antibody is predicted to recognize known full-length cleaved Toll-like receptor 9 protein. nmunizing animals with a synthetic peptide corresponding to n Toll-like receptor 9 protein. y is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested lysis in human cells. This antibody is expected to exhibit the conjugated Toll-like Receptor 9 (D9M9H) XP [®] Rabbit mAb family, named for the closely related Toll receptor in <i>Drosophila</i> , sponses (1-4). TLRs recognize conserved motifs found in various nses (5-7). Triggering of the TLR pathway leads to the activation Firmuno and inflammatory approx (4). The TLPs and members of					
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Toll-like Receptor 9 (D9M9H) XP [®] Rabbit mAb #13674.							
Background		Members of the Toll-like receptor (TLR) family, named for the closely related Toll receptor in <i>Drosophila</i> , play a pivotal role in innate immune responses (1-4). TLRs recognize conserved motifs found in various pathogens and mediate defense responses (5-7). Triggering of the TLR pathway leads to the activation of NF-kB and subsequent regulation of immune and inflammatory genes (4). The TLRs and members of the IL-1 receptor family share a conserved stretch of approximately 200 amino acids known as the Toll/Interleukin-1 receptor (TIR) domain (1). Upon activation, TLRs associate with a number of cytoplasmic adapter proteins containing TIR domains, including myeloid differentiation factor 88 (MyD88), MyD88-adapter-like/TIR-associated protein (MAL/TIRAP), TIR domain-containing adapter-inducing IFN- β (TRIF), and Toll-receptor-associated molecule (TRAM) (8-10). This association leads to the recruitment and activation of IRAK1 and IRAK4, which form a complex with TRAF6 to activate TAK1 and IKK (8,11-14). Activation of IKK leads to the degradation of IkB, which normally maintains NF- κ B in an inactive state by sequestering it in the cytoplasm.							
Background Refe	rences	 Akira, S. (2003) <i>J Biol Chem</i> 278, 38105-8. Beutler, B. (2004) <i>Nature</i> 430, 257-63. Dunne, A. and O'Neill, L.A. (2003) <i>Sci STKE</i> 2003, re3. Medzhitov, R. et al. (1997) <i>Nature</i> 388, 394-7. Schwandner, R. et al. (1999) <i>J Biol Chem</i> 274, 17406-9. Takeuchi, O. et al. (1999) <i>Immunity</i> 11, 443-51. Alexopoulou, L. et al. (2001) <i>Nature</i> 413, 732-8. Zhang, F.X. et al. (2001) <i>Nat Immunol</i> 2, 835-41. Oshiumi, H. et al. (2003) <i>Nat Immunol</i> 4, 161-7. Muzio, M. et al. (1997) <i>Jimunity</i> 7, 837-47. Suzuki, N. et al. (2002) <i>Nature</i> 416, 750-6. Irie, T. et al. (2000) <i>FEBS Lett</i> 467, 160-4. 							
Species Reactivity	/	Species reactivity is deter	rmined by testing in at lea	st one approved app	olication (e.g., western blot).				
Applications Key		FC-FP: Flow Cytometry (F	P: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivity k	(ey	H: Human							
Trademarks and F	Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.							

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