

Toll-like Receptor 4 (D8L5W) Rabbit mAb



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

Applications: W	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 100-135	Source/Isotype: Rabbit IgG	UniProt ID: #Q9QUK6	Entrez-Gene Id: 21898
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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		Toll-like Receptor 4 (D8L5W) Rabbit mAb recognizes endogenous levels of total Toll-like receptor 4 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant mouse Toll-like receptor 4 protein.				
Background		play a pivotal role in i pathogens and media of NF-κB and subsequathe IL-1 receptor fam Toll/Interleukin-1 receptoplasmic adapter μ (MyD88), MyD88-adal inducing IFN-β (TRIF), recruitment and activ IKK (8,11-14). Activation inactive state by sequal TLR4 functions in assiby lipopolysaccharides	nnate immune responsate defense responsuent regulation of ir ily share a conserve eptor (TIR) domain (proteins containing pter-like/TIR-associa, and Toll-receptor-aration of IRAK1 and on of IKK leads to the testering it in the cypociation with MD-2 is (LPS) of Gram-negate defense response.	mily, named for the closenses (1-4). TLRs recognes (5-7). Triggering of the number and inflammator distretch of approximate 1). Upon activation, TLR: TIR domains, including lated protein (MAL/TIRAP ssociated molecule (TRA IRAK4, which form a content of the degradation of IkB, which the recognition and interior bacteria (4-8). TLRA laction of inflammatory of the content of the co	nize conserved motine TLR pathway lead ry genes (4). The TL ely 200 amino acids is associate with a n myeloid differential), TIR domain-conta M) (8-10). This asso inplex with TRAF6 to hich normally main hitiation of immune	fs found in various ls to the activation Rs and members of known as the umber of cion factor 88 ining adaptericiation leads to the activate TAK1 and tains NF-kB in an responses elicited
Background Re	ferences	1. Akira, S. (2003) <i>J Biol Chem</i> 278, 38105-8. 2. Beutler, B. (2004) <i>Nature</i> 430, 257-63. 3. Dunne, A. and O'Neill, L.A. (2003) <i>Sci STKE</i> 2003, re3. 4. Medzhitov, R. et al. (1997) <i>Nature</i> 388, 394-7. 5. Schwandner, R. et al. (1999) <i>J Biol Chem</i> 274, 17406-9. 6. Takeuchi, O. et al. (1999) <i>Immunity</i> 11, 443-51. 7. Alexopoulou, L. et al. (2001) <i>Nature</i> 413, 732-8. 8. Zhang, F.X. et al. (1999) <i>J Biol Chem</i> 274, 7611-4. 9. Horng, T. et al. (2001) <i>Nat Immunol</i> 2, 835-41. 10. Oshiumi, H. et al. (2003) <i>Nat Immunol</i> 4, 161-7. 11. Muzio, M. et al. (1997) <i>Science</i> 278, 1612-5. 12. Wesche, H. et al. (2002) <i>Nature</i> 416, 750-6. 14. Irie, T. et al. (2000) <i>FEBS Lett</i> 467, 160-4.				

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

Cross-Reactivity Key

M: Mouse

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