Carriagliaghus

# Toll-like Receptor 6 (D1Z8B) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

Web: info@cellsignal.com

cellsignal.com

Futura Cana Ide

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Linibant ID.

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

Compitinis

WB, IP	H M	Endogenous	<b>MW (KDa):</b> 90-110	Rabbit IgG	#Q9Y2C9	10333	
Product Usage Information	Application			Dilution			
	We	estern Blotting		1:1000			
	lmı	munoprecipitation		1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.					
Specificity / Sensitiv		TLR6 (D1Z8B) Rabbit mAb recognizes endogenous levels of total TLR6 protein. This antibody cross-reacts with a 72 kDa protein of unknown origin. This antibody is not approved for IP in mouse samples.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with synthetic peptides corresponding to residues surrounding Pro47 of human and mouse TLR6 protein.						

MANA (LDs).

**Background** 

A mulications.

Members of the Toll-like receptor (TLR) family, named for the closely related Toll receptor in Drosophila, 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-кB 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 adaptor proteins containing TIR domains, including myeloid differentiation factor 88 (MyD88), MyD88adaptor-like/TIR-associated protein (MAL/TIRAP), Toll-receptor-associated activator of interferon (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-kB in an inactive state by sequestering it in the cytoplasm.

Toll-like receptor 6 (TLR6) heterodimerizes with TLR2 and is expressed on the cell surface where it recognizes fungal zymosan and bacterial lipoproteins (15). In addition, a heterodimer of TLR4 and TLR6 was recently shown to assemble downstream of CD36 signaling and contribute to sterile inflammation in response to CD36 ligands, including low-density lipoprotein and β-amyloid (16).

#### **Background References**

- 1. Akira, S. (2003) J Biol Chem 278, 38105-8.
- 2. Beutler, B. (2004) Nature 430, 257-63.
- 3. Dunne, A. and O'Neill, L.A. (2003) Sci STKE 2003, re3.
- 4. Medzhitov, R. et al. (1997) Nature 388, 394-7.
- 5. Schwandner, R. et al. (1999) J Biol Chem 274, 17406-9.
- 6. Takeuchi, O. et al. (1999) Immunity 11, 443-51.
- 7. Alexopoulou, L. et al. (2001) Nature 413, 732-8.
- 8. Zhang, F.X. et al. (1999) J Biol Chem 274, 7611-4.
- 9. Horng, T. et al. (2001) Nat Immunol 2, 835-41.
- 10. Oshiumi, H. et al. (2003) Nat Immunol 4, 161-7.
- 11. Muzio, M. et al. (1997) Science 278, 1612-5.
- 12. Wesche, H. et al. (1997) Immunity 7, 837-47.
- 13. Suzuki, N. et al. (2002) Nature 416, 750-6.
- 14. Irie, T. et al. (2000) FEBS Lett 467, 160-4.
- 15. Ozinsky, A. et al. (2000) Proc Natl Acad Sci U S A 97, 13766-71.
- 16. Stewart, C.R. et al. (2010) Nat Immunol 11, 155-61.

## **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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

**Cross-Reactivity Key** 

WB: Western Blotting IP: Immunoprecipitation

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dq: doq Pq: piq Sc: S. cerevisiae Ce: C. elegans Hr: horse

A. Aeriopus 2. Zebraristi B. Bovine Dy. duy Py. piy 30. 3. Cerevisiae Ce. C. elegaris i

GP: Guinea Pig Rab: rabbit All: all species expected

Trademarks and Patents

**Limited Uses** 

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.