

TLR3 Polyclonal Antibody

Product Specifications

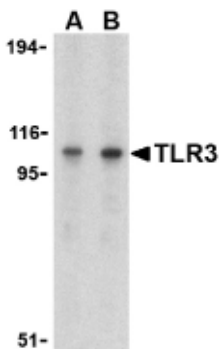
Catalog Number:	905-726-100
Host:	Rabbit
Species Reactivity:	Human, mouse
Applications: <i>The optimal dilution for a specific application must be determined by the investigator</i>	WB: 1-2 µg/mL ICC: 1 µg/mL
Predicted m.w.:	~106 kDa
Concentration:	See product label
Purification:	Ion Exchange Chromatography
Format:	PBS, 0.02% sodium azide
Storage: <i>Shipping conditions may differ from the recommended storage temperature</i>	Store at -20°C
Immunogen:	Synthetic peptide corresponding to sequence near the carboxy-terminus of human TLR3
Related Products:	
CSA-510	MyD88 Polyclonal Antibody
CSA-514	TIRAP Polyclonal Antibody

Background:

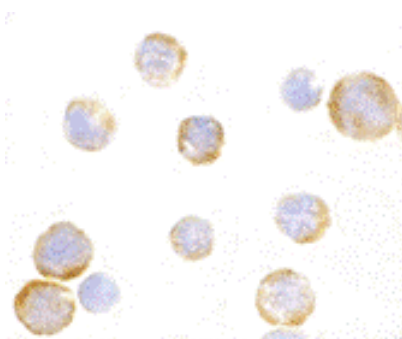
Toll-like receptors (TLRs) are evolutionarily conserved pattern-recognition molecules resembling the toll proteins that mediate antimicrobial responses in *Drosophila*. These proteins recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses^{1,2}. The TLRs act through adaptor molecules such as MyD88 and TIRAP to activate various kinases and transcription factors³ in response to potential infection. TLR3 is known to recognize viral double-stranded (ds) RNA, a molecular pattern associated with viral infection⁴. TLR3 has been shown to recognize Influenza A⁵, and is the receptor that mediates West Nile virus entry in the cell, leading to lethal encephalitis⁶.

References:

1. Takeda, K., *et al.* (2003) *Annu Rev Immunol.* **21**, 335-376.
2. Janeway, C.A. Jr., *et al.* (2002) *Annu Rev Immunol.* **20**, 197-216.
3. McGettrick, A.F., *et al.* (2004) *Mol Imm.* **41**, 577-582.
4. Alexopoulou, L., *et al.* (2001) *Nature* **413**, 732-738.
5. Guillot, L., *et al.* (2005) *J Biol Chem.* **280**, 5571-5580.
6. Wang, T., *et al.* (2004) *Nat Med.* **10**, 1366-1373.



Western blot analysis of Daudi cell lysate with TLR3 Polyclonal Antibody at (A) 1 and (B) 2 µg/mL



Immunocytochemistry of EL4 cells with TLR3 Polyclonal Antibody at 1 µg/mL