TLR7 Polyclonal Antibody

Product Specifications

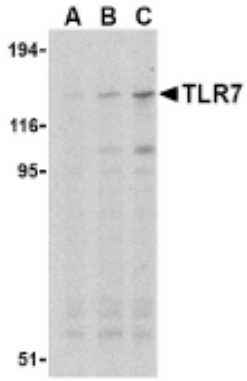
Catalog Number:	CSA-824
Host:	Rabbit
Species Reactivity:	Human, mouse
Predicted m.w:	~121 kDa
Applications: *The optimal dilution for a specific application must be determined by the investigator*	**WB:** 0.5 to 2 µg/mL **ICC:** 2 µg/mL
Concentration:	See product label
Purification:	Ion exchange chromatography
Format:	PBS, 0.02% sodium azide.
Storage: *Shipping conditions may differ from the recommended storage temperature*	Store at 4°C
Immunogen:	Synthetic peptide derived from sequence near the middle of mouse TLR7
Related Products:	
CSA-514	TIRAP Polyclonal Antibody
CSA-510	MyD88 Polyclonal Antibody
900-137	Mouse IFNγ EIA
900-136	Human IFNγ EIA kit
KAP-ST206	IRAK4 Polyclonal Antibody

Background:

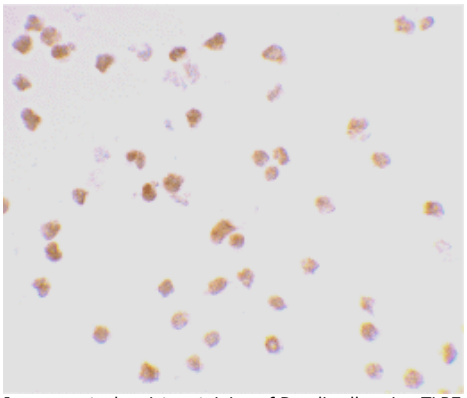
Toll-like receptor (TLR) signaling molecules recognize different microbial products during infection, and provide an important link between innate and adaptive immune responses[1-3]. These proteins act through adaptor molecules such as TIRAP (TIR Domain Containing Adaptor Protein) and MyD88 to activate various kinases and transcription factors[4,5]. TLR7, like TLRs 3, 8, and 9, resides in intracellular acidic compartments such as the phagolysosome[6], and recognizes single-stranded RNA viruses such as vesicular stomatitis virus (VSV) and influenza virus[7]. Activation of TLR7 by VSV results in stimulation of the immune response, including IFNα secretion, suggesting the importance of TLR7 in virus recognition.

References:

1. Vogel, S.N., *et al*. (2003) Mol Interv. **3**, 466-477.
2. Takeda, K., *et al*. (2003) Annu Rev Immunol. **21**, 335-376.
3. Janeway, C.A. Jr. *et al*. (2002) Annu Rev Immunol. **20**, 197-216.
4. O'Neill, L.A.J., *et al*. (2003) Trends in Imm. **24**, 286-289.
5. McGettrick, A.F., *et al*. (2004) Mol Imm. **41**. 577-582.
6. Nishiya, T., *et al*. (2004) J Biol Chem. **279**, 19008-19017.
7. Lund, J.M., *et al*. (2002) Nature **420**, 329-333.



Western blot analysis of Daudi cell lysates probed with TLR7 polyclonal antibody at 0.5 (A), 1 (B), and 2 (C) µg/mL



Immunocytochemistry staining of Daudi cells using TLR7 antibody at 2 µg/mL

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