

**TLR3 Antibody**  
Catalog # ASC10370

**Specification**

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**TLR3 Antibody - Product Information**

Application	WB, ICC, IF
Primary Accession	<a href="#">O15455</a>
Other Accession	<a href="#">O15455</a> , <a href="#">20140422</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	99 kDa KDa
Application Notes	TLR3 antibody can be used for detection of TLR3 by Western blot at 1 to 2 µg/mL. Antibody can also be used for immunocytochemistry starting at 1 µg/mL. For immunofluorescence start at 10 µg/mL.

**TLR3 Antibody - Additional Information**

Gene ID	7098
<b>Other Names</b>	
TLR3 Antibody: CD283, IIAE2, Toll-like receptor 3, toll-like receptor 3	

**Target/Specificity**  
TLR3;

**Reconstitution & Storage**

TLR3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

TLR3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**TLR3 Antibody - Protein Information**

**Name** TLR3 ([HGNC:11849](#))

**Function**

Key component of innate and adaptive immunity. TLRs (Toll- like receptors) control host immune response against pathogens through recognition of molecular patterns specific to microorganisms. TLR3 is a nucleotide-sensing TLR which is activated by double-stranded RNA, a sign of viral infection. Acts via the adapter TRIF/TICAM1, leading to NF-kappa-B activation, IRF3 nuclear translocation, cytokine secretion and the inflammatory response.

**Cellular Location**

Endoplasmic reticulum membrane; Single-pass type I membrane protein. Endosome membrane. Early endosome

#### Tissue Location

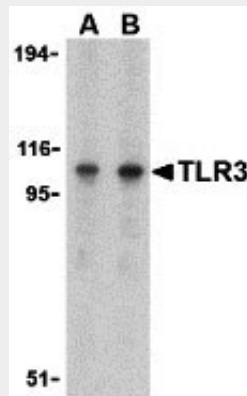
Expressed at high level in placenta and pancreas. Also detected in CD11c+ immature dendritic cells. Only expressed in dendritic cells and not in other leukocytes, including monocyte precursors. TLR3 is the TLR that is expressed most strongly in the brain, especially in astrocytes, glia, and neurons

#### TLR3 Antibody - Protocols

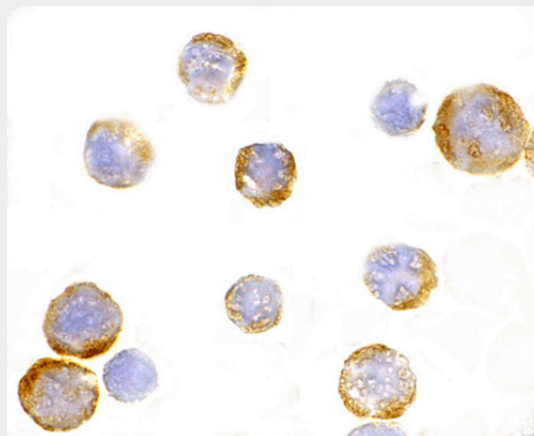
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

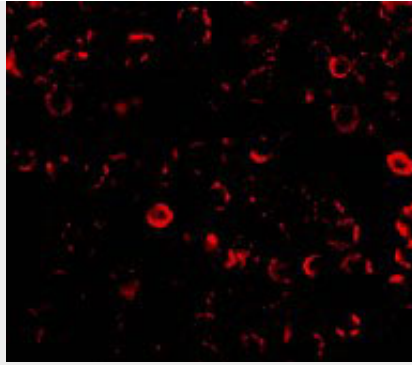
#### TLR3 Antibody - Images



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



Immunocytochemistry of TLR3 in EL4 cells with TLR3 antibody at 1 µg/mL.



Immunofluorescence of TLR3 in E14 cells with TLR3 antibody at 10 µg/mL.

### **TLR3 Antibody - Background**

**TLR3 Antibody:** 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. The TLRs act through adaptor molecules such as MyD88 and TIRAP to activate various kinases and transcription factors so the organism can respond to potential infection. TLR3 is known to recognize viral double-stranded (ds) RNA, a molecular pattern associated with viral infection. Recently it has been shown to recognize viruses such as Influenza A and West Nile Virus and can mediate entry of at least West Nile Virus.

### **TLR3 Antibody - References**

Takeda K, Kaisho T, and Akira S. Toll-like receptors. *Annu. Rev. Immunol.* 2003; 21:335-76.

Janeway CA Jr. and Medzhitov R. Innate immune recognition. *Annu. Rev. Immunol.* 2002; 20:197-216.

McGettrick AF and O'Neill LAJ. The expanding family of MyD88-like adaptors in Toll-like receptor signal transduction. *Mol Imm.* 2004; 41:577-82.

Alexopoulou L, Holt AC, Medzhitov R, et al. Recognition of double-stranded RNA and activation of NF-κB by Toll-like receptor 3. *Nature* 2001; 413:732-8.