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TLR3 Antibody
Catalog # ASC10371

Specification

TLR3 Antibody - Product Information

Application	**WB, IF, ICC, E**
Primary Accession	O15455
Other Accession	O15455, 7098
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 97 kDa** **Observed: 93 kDa KDa**
Application Notes	**TLR3 antibody can be used for detection of TLR3 by Western blot at 0.5 µg/mL. Antibody can also be used for immunocytochemistry starting at 10 µg/mL. For immunofluorescence start at 2 µg/mL.**

TLR3 Antibody - Additional Information

Gene ID **7098**

Other Names
TLR3 Antibody: CD283, IIAE2, Toll-like receptor 3, toll-like receptor 3

Target/Specificity
TLR3 antibody was raised against a peptide corresponding to 15 amino acids near the amino terminus of human TLR3.

The immunogen is located within amino acids 40 - 90 of TLR3.

Reconstitution & Storage
TLR3 antibody can be stored at 4℃ for three months and -20℃, 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

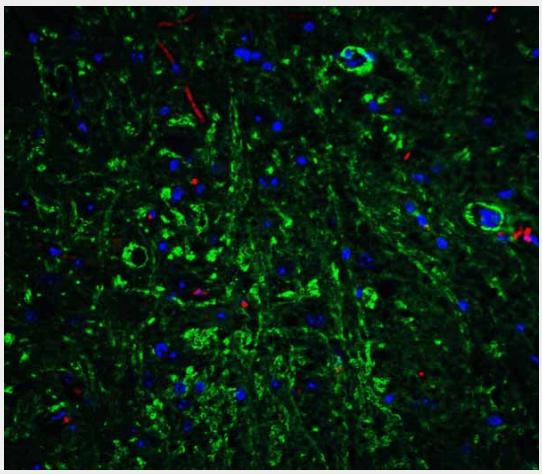
Tissue Location
Expressed at high level in placenta and pancreas. Also detected in CD11c+ immature dendritic cells. Only expressed in dendritic cells and not in other leukocytes, including monocyte precursors. TLR3 is the TLR that is expressed most strongly in the brain, especially in astrocytes, glia,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

TLR3 Antibody - Images



Immunofluorescence of APP in mouse brain tissue with APP Antibodyat 20 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-kappaB by Toll-like receptor 3. Nature 2001; 413:732-8.