

TLR3 Antibody

Rabbit Polyclonal Antibody

Catalog # ALS13663

Specification

TLR3 Antibody - Product Information

Application	IF, WB, IHC
Primary Accession	O15455
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	104kDa KDa

TLR3 Antibody - Additional Information

Gene ID 7098

Other Names

Toll-like receptor 3, CD283, TLR3

Target/Specificity

Human TLR3. Predicted cross-reactivity based on amino acid sequence homology: mouse (81%), guinea pig (84%), rat (83%), rabbit (82%), bovine (86%), cat (86%), pig (84%), monkey (96%).

Reconstitution & Storage

Aliquot and store at -20°C. Minimize freezing and thawing.

Precautions

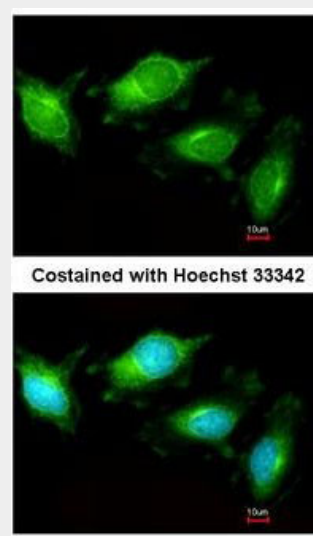
TLR3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TLR3 Antibody - Protein Information

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

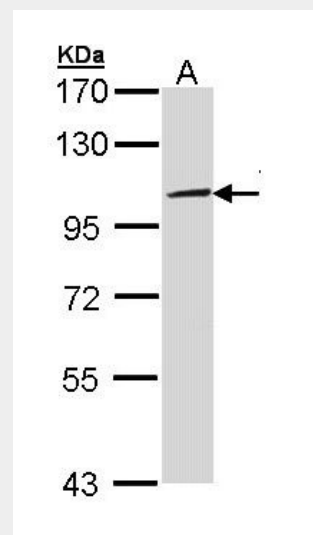
Function

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,



Costained with Hoechst 33342

Immunofluorescence of methanol-fixed HeLa, using TLR3 antibody at 1:200 dilution.



Sample (30 ug of whole cell lysate). A: Molt-4. 7.5% SDS PAGE. TLR3 antibody diluted at 1:5000.

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

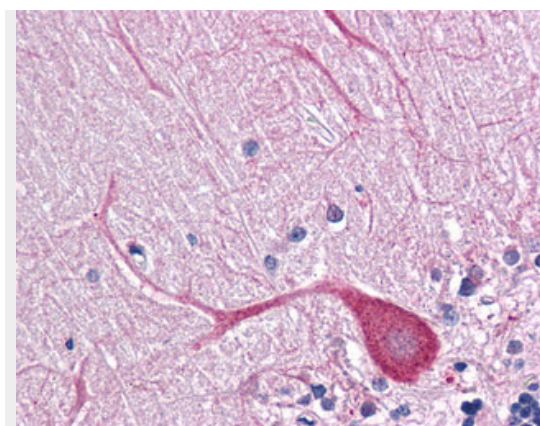
Volume

100 µl

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](#)



Anti-TLR3 antibody IHC of human brain, cerebellum.

TLR3 Antibody - Background

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.

TLR3 Antibody - References

- Rock F.L., et al. Proc. Natl. Acad. Sci. U.S.A. 95:588-593(1998).
Lafon M., et al. J. Mol. Neurosci. 29:185-194(2006).
Nakajima T., et al. Immunogenetics 60:727-735(2008).
Macquin C., et al. Submitted (JAN-2006) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).