

TLR8 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS11728**Specification**

TLR8 Antibody - Product Information

Application	IHC
Primary Accession	Q9NR97
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	120kDa KDa

TLR8 Antibody - Additional Information**Gene ID** 51311**Other Names**

Toll-like receptor 8, CD288, TLR8

Target/Specificity

peptide corresponding to 16 amino acids near the middle of human TLR8

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

TLR8 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TLR8 Antibody - Protein Information**Name** TLR8 ([HGNC:15632](#))**Function**

Endosomal receptor that plays a key role in innate and adaptive immunity (PubMed: [25297876](http://www.uniprot.org/citations/25297876), PubMed: [32433612](http://www.uniprot.org/citations/32433612)). Controls host immune response against pathogens through recognition of RNA degradation products specific to microorganisms that are initially processed by RNASET2 (PubMed: [31778653](http://www.uniprot.org/citations/31778653)). Recognizes GU-rich single- stranded RNA (GU-rich RNA) derived from SARS-CoV-2, SARS-CoV-1 and HIV- 1 viruses (PubMed: [33718825](http://www.uniprot.org/citations/33718825)). Upon binding to agonists, undergoes dimerization that brings TIR domains from the two molecules into direct contact, leading to the recruitment of TIR-containing downstream adapter MYD88 through homotypic interaction (PubMed: [23520111](http://www.uniprot.org/citations/23520111), PubMed: [25599397](http://www.uniprot.org/citations/25599397), PubMed: [26929371](http://www.uniprot.org/citations/26929371), PubMed: [26929371](http://www.uniprot.org/citations/26929371)).

[33718825](http://www.uniprot.org/citations/33718825)). In turn, the Myddosome signaling complex is formed involving IRAK4, IRAK1, TRAF6, TRAF3 leading to activation of downstream transcription factors NF- kappa-B and IRF7 to induce pro-inflammatory cytokines and interferons, respectively (PubMed: [16737960](http://www.uniprot.org/citations/16737960), PubMed: [17932028](http://www.uniprot.org/citations/17932028), PubMed: [29155428](http://www.uniprot.org/citations/29155428)).

Cellular Location

Endosome membrane; Single-pass type I membrane protein. Note=Endosomal localization confers distinctive proteolytic processing

Tissue Location

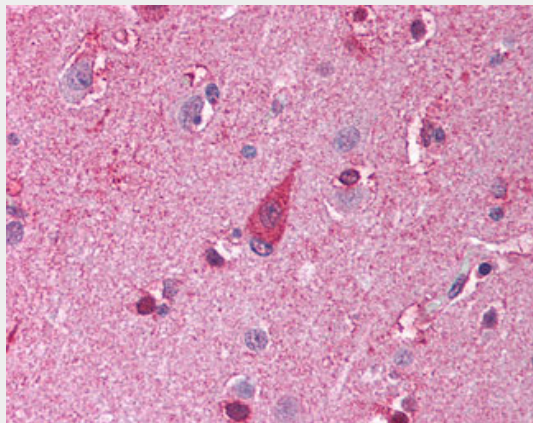
Expressed in myeloid dendritic cells, monocytes, and monocyte-derived dendritic cells.

TLR8 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](#)

TLR8 Antibody - Images



Anti-TLR8 antibody IHC of human brain, cortex.

TLR8 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. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response.

TLR8 Antibody - References

Du X.,et al.Eur. Cytokine Netw. 11:362-371(2000).
Chuang T.-H.,et al.Eur. Cytokine Netw. 11:372-378(2000).
Nakajima T.,et al.Immunogenetics 60:727-735(2008).
Georgel P.,et al.PLoS ONE 4:E7803-E7803(2009).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).