

TLR8 Antibody (aa750-850, clone 44C143)
Mouse Monoclonal Antibody
Catalog # ALS12180**Specification**

TLR8 Antibody (aa750-850, clone 44C143) - Product Information

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

TLR8 Antibody (aa750-850, clone 44C143) - Additional Information**Gene ID** 51311**Other Names**

Toll-like receptor 8, CD288, TLR8

Target/Specificity

A KLH-conjugated synthetic peptide of human TLR8, within amino acids 750-850. It will cross-react with mouse TLR8.

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

TLR8 Antibody (aa750-850, clone 44C143) is for research use only and not for use in diagnostic or therapeutic procedures.

TLR8 Antibody (aa750-850, clone 44C143) - 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: [23520111](http://www.uniprot.org/citations/23520111)).

href="http://www.uniprot.org/citations/25599397" target="_blank">25599397, PubMed:26929371, PubMed: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, PubMed:17932028, PubMed: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.

Volume

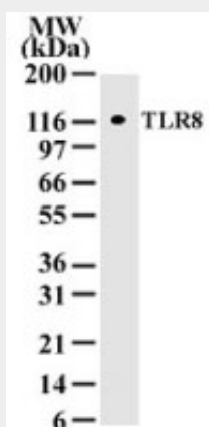
50 µl

TLR8 Antibody (aa750-850, clone 44C143) - Protocols

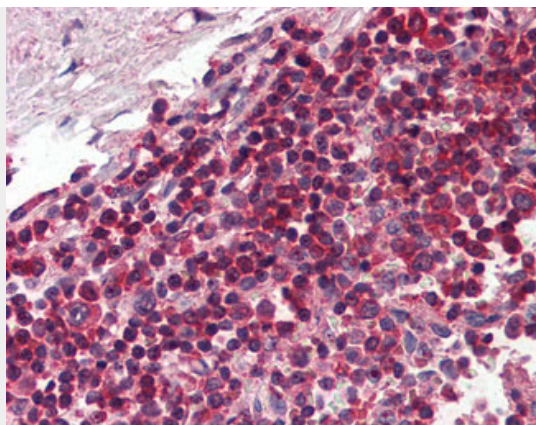
Provided below are standard protocols that you may find useful for product applications.

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

TLR8 Antibody (aa750-850, clone 44C143) - Images



Western blot of TLR8 in cell lysates from 293 transfected with human TLR8 using antibody at a...



Anti-TLR8 antibody IHC of human spleen.

TLR8 Antibody (aa750-850, clone 44C143) - 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 (aa750-850, clone 44C143) - 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).