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TLR8 Antibody (aa750-850, clone 44C143)

Mouse Monoclonal Antibody
Catalog # ALS12180

Specification

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

Application	**WB, IHC-P, FC**
Primary Accession	Q9NR97
Reactivity	**Human, Mouse**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**120kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **FC~~1:10~50**

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, PubMed:32433612). Controls host immune response against pathogens through recognition of RNA degradation products specific to microorganisms that are initially processed by RNASET2 (PubMed:31778653). Recognizes GU-rich single- stranded RNA (GU-rich RNA) derived from SARS-CoV-2, SARS-CoV-1 and HIV- 1 viruses (PubMed: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, PubMed: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.

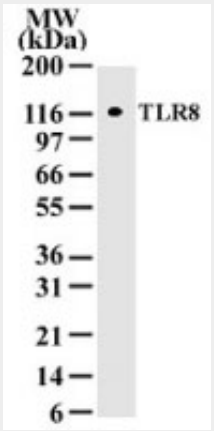
Volume
50 µl

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 Cytomety
- 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...

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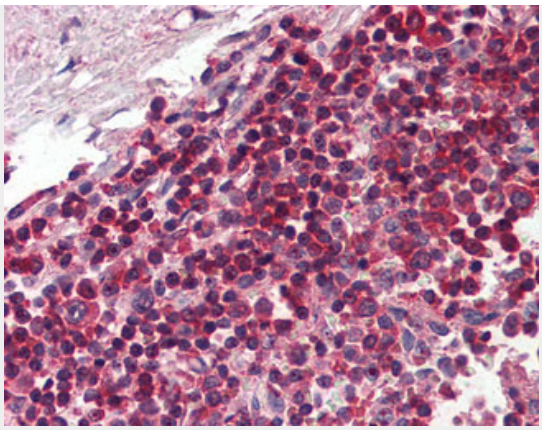

Anti-TLR8 antibody IHC of human spleen.

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

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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).
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