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# Mouse TLR8 Antibody (C-term)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP1508d**

## Specification

### Mouse TLR8 Antibody (C-term) - Product Information

| | |
|---|---|
| Application | **WB, IHC-P,E** |
| Primary Accession | P58682 |
| Reactivity | **Mouse** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **119358** |
| Antigen Region | **957-987** |

### Mouse TLR8 Antibody (C-term) - Additional Information

**Gene ID** 170744

**Other Names**
Toll-like receptor 8, CD288, Tlr8

**Target/Specificity**
This Mouse TLR8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 957-987 amino acids from the C-terminal region of mouse TLR8.

**Dilution**
WB~~1:1000
IHC-P~~1:10~50

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
Mouse TLR8 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### Mouse TLR8 Antibody (C-term) - Protein Information

**Name** Tlr8

**Function** Endosomal receptor that plays a key role in innate and adaptive immunity. Controls host immune response against pathogens through recognition of RNA degradation products specific to

microorganisms that are initially processed by RNASET2. 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. 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.

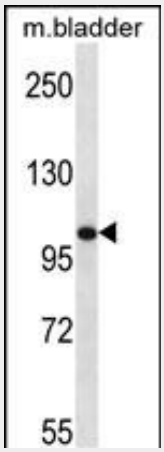
**Cellular Location**
Endosome membrane {ECO:0000250|UniProtKB:Q9NR97}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:Q9NR97} Note=Endosomal localization confers distinctive proteolytic processing {ECO:0000250|UniProtKB:Q9NR97}

## Mouse TLR8 Antibody (C-term) - 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

## Mouse TLR8 Antibody (C-term) - Images




TLR8 Antibody (E972) (Cat. #AP1508d) western blot analysis in mouse bladder tissue lysates (35ug/lane).This demonstrates the TLR8 antibody detected the TLR8 protein (arrow).

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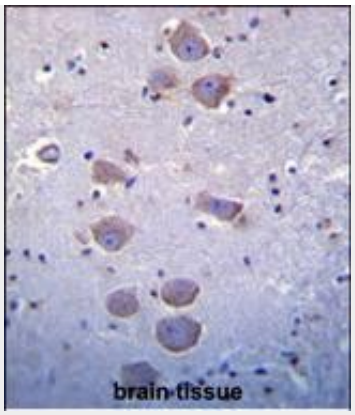


Mouse TLR8 Antibody (C-term) (Cat. #AP1508d)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of Mouse TLR8 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

**Mouse TLR8 Antibody (C-term) - Background**

TLR8 is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. TLR8 is predominantly expressed in lung and peripheral blood leukocytes, and lies in close proximity to another family member, TLR7, on chromosome X.

**Mouse TLR8 Antibody (C-term) - References**

Kaisho T and Akira S, Curr. Mol. Med. 2003. 3: 373.
Medzhitov R and Janeway C, Cell. 1997. 91: 295.