

TLR4 Antibody
Catalog # ASM10462**Specification****TLR4 Antibody - Product Information**

Application	WB, IHC, FC, ICC
Primary Accession	O00206
Other Accession	NP_612564.1
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Description	Rabbit Anti-Human TLR4 Polyclonal

Target/Specificity

Detects ~75-80kDa when tested against partial recombinant mouse TLR4 (extra-cellular portion plus His-tag).

Other Names

ARMD10 Antibody, CD284 Antibody, TLR 4 Antibody, TOLL Antibody, Toll like receptor 4 Antibody

Immunogen

Developed against a synthetic peptide corresponding to amino acids 420-435 of human TLR4

Purification

Protein A Purified

Storage **-20°C**

Storage Buffer

PBS, 50% glycerol, 0.09% sodium azide

Shipping Temperature **Blue Ice or 4°C**

Certificate of Analysis

2 µg/ml of SPC-200 was sufficient for detection of TLR4 in 100 ng of partial recombinant mouse TLR4 protein by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

Cellular Localization

Membrane

TLR4 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](#)

TLR4 Antibody - Images

TLR4 Antibody - Background

The Toll-like receptor (TLR) family in mammal comprises a family of trans-membrane proteins characterized by multiple copies of leucine rich repeats in the extracellular domain and 1L-1 receptor motif in the cytoplasmic domain. Like its counterparts in *Drosophila*, TLRs signal through adaptor molecules (1). The TLR family is a phylo-genetically conserved mediator of innate immunity that is essential for microbial recognition (2). Ten human homologs of TLRs (TLR1-10) have been described (3). Among this family of receptors, TLR2 and TLR4 have been most studied. These studies have suggested that TLR2 and TLR4 may serve as potential main mediators of LPS signaling (4,5). The mouse TLR4 cDNA codes for a protein consisting of 839 amino acids, with an approximate molecular weight of 90kDa (6).

TLR4 Antibody - References

1. Muzio M., Natoli G., Saccan S., Levrero M., and Mantovani A. (1998) *J. Exp. Med.* 187: 2097-2101.
2. Medzhitov R. and Janeway C.A (1997) *Cell.* 91: 295-298.
3. Chuang T.H. and Ulevitch R.J. (2001) *Biochim. Biophys. Acta.* 1518(1-2): 157-161.
4. Takeuchi O., et al. (1999) *Immunity.* 11: 443.
5. Poltorak A., Riccardi-Castagnoli P., Citterio S., and Butler B. (2000) *Proc. Natl. Acad. Sci USA.* 97: 2163-2167.
6. Medzhitov R., Preston-Hurlburt P. and Janeway C.A. (1997) *Jr. Nature.* 388(6640): 394-397.