

**TLR4 Antibody (monoclonal) (M03)**

Mouse monoclonal antibody raised against a partial recombinant TLR4.

Catalog # AT4256a

**Specification**

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**TLR4 Antibody (monoclonal) (M03) - Product Information**

Application	WB, E
Primary Accession	<a href="#">O00206</a>
Other Accession	<a href="#">NM_138554</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	95680

**TLR4 Antibody (monoclonal) (M03) - Additional Information****Gene ID** 7099**Other Names**

Toll-like receptor 4, hToll, CD284, TLR4

**Target/Specificity**

TLR4 (NP\_612564, 214 a.a. ~ 291 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

TLR4 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

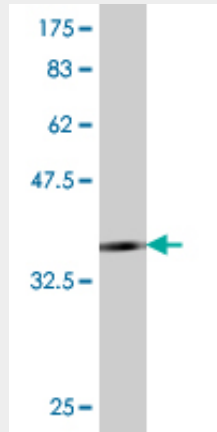
**TLR4 Antibody (monoclonal) (M03) - Protocols**

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

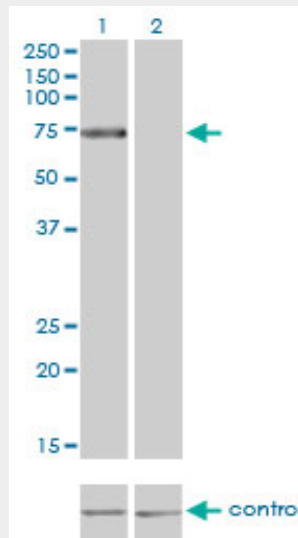
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

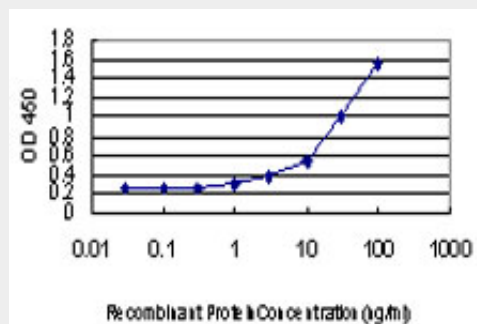
**TLR4 Antibody (monoclonal) (M03) - Images**



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (34.32 KDa) .



Western blot analysis of TLR4 over-expressed 293 cell line, cotransfected with TLR4 Validated Chimera RNAi ( (Cat # AT4256a )



Detection limit for recombinant GST tagged TLR4 is approximately 0.03ng/ml as a capture

antibody.

### **TLR4 Antibody (monoclonal) (M03) - Background**

The protein encoded by this gene 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. This receptor is most abundantly expressed in placenta, and in myelomonocytic subpopulation of the leukocytes. It has been implicated in signal transduction events induced by lipopolysaccharide (LPS) found in most gram-negative bacteria. Mutations in this gene have been associated with differences in LPS responsiveness. Also, several transcript variants of this gene have been found, but the protein coding potential of most of them is uncertain.

### **TLR4 Antibody (monoclonal) (M03) - References**

Inflammatory Mediators Gene Polymorphisms in Preeclampsia. Franchim CS, et al. *Hypertens Pregnancy*, 2010 Sep 6. PMID 20818961. Toll-like Receptor Gene Polymorphisms and Preeclampsia Risk: A Case-Control Study and Data Synthesis. Xie F, et al. *Hypertens Pregnancy*, 2010 Sep 6. PMID 20818954. Toll-like receptor 4 polymorphism and its association with symptomatic neurocysticercosis. Verma A, et al. *J Infect Dis*, 2010 Oct 15. PMID 20807077. Toll-like receptor and TIRAP gene polymorphisms in pulmonary tuberculosis patients of South India. Selvaraj P, et al. *Tuberculosis (Edinb)*, 2010 Sep. PMID 20797905. Genetic factors responsible for long bone fractures non-union. Szczesny G, et al. *Arch Orthop Trauma Surg*, 2010 Aug 21. PMID 20730440.