

Biotin Anti-TLR4 antibody [MTS510] α b9105

2 References

Overview

Product name	Biotin Anti-TLR4 antibody [MTS510]
Description	Biotin Rat monoclonal [MTS510] to TLR4
Host species	Rat
Conjugation	Biotin
Specificity	Only detects murine TLR-4 when complexed to MD-2. This antibody has been found to coprecipitate MD-2 (30kDa) with TLR4 (100kDa).
Tested applications	Suitable for: IHC-Fr, IP, Flow Cyt, Functional Studies
Species reactivity	Reacts with: Mouse
Immunogen	Tissue, cells or virus corresponding to TLR4. Mouse Ba/F3 cells expressing mouse TLR4
General notes	<p>Ab9105 is a TLR4 function blocking antibody that is useful for studies on the role of TLR4 as a receptor for LPS induced cytokine production by TLR4 bearing cells.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein G purified
Purification notes	0.2 μ m filtered
Primary antibody notes	Ab9105 is a TLR4 function blocking antibody that is useful for studies on the role of TLR4 as a

	receptor for LPS induced cytokine production by TLR4 bearing cells.
Clonality	Monoclonal
Clone number	MTS510
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab9105 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. ab18445 - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
Functional Studies		Use at an assay dependent concentration.

Target

Function	Cooperates with LY96 and CD14 to mediate the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MYD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Also involved in LPS-independent inflammatory responses triggered by Ni(2+). These responses require non-conserved histidines and are, therefore, species-specific.
Tissue specificity	Highly expressed in placenta, spleen and peripheral blood leukocytes. Detected in monocytes, macrophages, dendritic cells and several types of T-cells.
Involvement in disease	Genetic variation in TLR4 is associated with age-related macular degeneration type 10 (ARMD10) [MIM:611488]. ARMD is a multifactorial eye disease and the most common cause of irreversible vision loss in the developed world. In most patients, the disease is manifest as ophthalmoscopically visible yellowish accumulations of protein and lipid that lie beneath the retinal pigment epithelium and within an elastin-containing structure known as Bruch membrane.
Sequence similarities	Belongs to the Toll-like receptor family. Contains 18 LRR (leucine-rich) repeats. Contains 1 LRRCT domain. Contains 1 TIR domain.
Domain	The TIR domain mediates interaction with NOX4.
Post-translational modifications	N-glycosylated. Glycosylation of Asn-526 and Asn-575 seems to be necessary for the expression of TLR4 on the cell surface and the LPS-response. Likewise, mutants lacking two or more of the other N-glycosylation sites were deficient in interaction with LPS.
Cellular localization	Membrane.

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