

## Product datasheet

# Anti-TLR4/MD2 Complex antibody [MTS510] $\alpha$ b95562

### 5 References

#### Overview

<b>Product name</b>	Anti-TLR4/MD2 Complex antibody [MTS510]
<b>Description</b>	Rat monoclonal [MTS510] to TLR4/MD2 Complex
<b>Specificity</b>	The MTS510 monoclonal antibody co-immunoprecipitates MD-2 (~30 kDa) and TLR4 (~100 kDa), and preferentially reacts with TLR4 that is associated with MD-2.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, IHC-Fr, IP, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat
<b>Immunogen</b>	Toll-like receptor 4 (TLR4)/MD-2 complex of Mouse origin
<b>Positive control</b>	Thioglycolate-induced mouse peritoneal exudate cells (PECs)

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.09% Sodium Azide Constituents: PBS, 150mM Sodium chloride, pH 7.2
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	MTS510
<b>Isotype</b>	IgG2a
<b>Light chain type</b>	kappa

#### Applications

Our [Abpromise guarantee](#) covers the use of **ab95562** 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

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Flow Cyt		Use 1µg for 10 <sup>5-8</sup> cells. Staining the cell sample in a final volume of 100 µL is recommended.
		<a href="#">ab18450</a> -Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
IHC-Fr		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 95 kDa. PubMed: 28714001
IHC-P		Use at an assay dependent concentration. PubMed: 28714001

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Highly expressed in placenta, spleen and peripheral blood leukocytes. Detected in monocytes, macrophages, dendritic cells and several types of T-cells.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the Toll-like receptor family. Contains 18 LRR (leucine-rich) repeats. Contains 1 LRRCT domain. Contains 1 TIR domain.
<b>Domain</b>	The TIR domain mediates interaction with NOX4.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Membrane.

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