

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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- Trockeneiszuschlag
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Product datasheet

MON4032



Rat anti Mouse-TLR4/MD2, clone MTS510 (Monoclonal) Clone no. MTS510

Product name	Rat anti Mouse-TLR4/MD2, clone MTS510 (Monoclonal)
Host	Rat
Applications	IHC-fr,FC,FUNC,IF,IP
Species reactivity	mouse
Conjugate	-
Immunogen	Unknown or proprietery to MONOSAN and/or its suppliers
lsotype	lgG2a
Clonality	Monoclonal
Clone number	MTS510
Size	1 ml
Concentration	100 ug/ ml
Format	_
Storage buffer	PBS with 0.1% BSA and 0.02% sodium azide
Storage until expiry date	2-8°C

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Additional info		The monoclonal antibody MTS510 reacts with the Toll-like receptor 4 (TLR4, CD284) that is associated with MD2. TLRs are expressed by various cells of the immune system, such as macrophages and dendritic cells. TLRs are class I receptors, with a single α-helix that spans the cell membrane. They recognize and respond to molecules derived from bacterial, viral and fungal pathogens, such as lipopolysaccharide (LPS) from the outer membrane of Gram negative bacteria, peptidoglycan fragments from bacterial cell walls and single-stranded and double-stranded RNA from viruses. Toll-like receptor 4 (TLR4; CD284) has been identified, next to MD-2 and CD14, as a receptor that is central to the innate immune response to LPS of Gram-negative bacteria. TLR4 is unique among TLRs in its ability to activate two distinct signaling pathways; one pathway is activated by the adaptors TIRAP (Toll/interleukin-1-receptor (TIR)-domain-containing adaptor protein) and MyD88, which leads to the induction of proâ€′inflammatory cytokines. The second pathway is activated by the adaptor molecule), which leads to the induction of type I interferons. MD-2 exists as a cell surface protein in association with TLR4. It also exists as secreted forms consisting of MD-2 monomer and multimers. Circulating sMD-2 is mainly present as a doublet of ~20 and 25 kD, representing differentially glycosylated forms. Unlike TLR4, sMD-2 binds directly LPS without the need of soluble CD14 (sCD14). However, LPS-MD-2 interactions are increased when LPS is pretreated with CD14. Only monomeric sMD-2 is biologically active and able to associate with TLR4 and LPS. sMD-2 circulates in plasma of healthy individuals as a non-active, polymeric protein. In septic plasma, the total amount of sMD-2 was strongly elevated and contained both sMD-2 polymers and monomers. Soluble MD-2 is proposed to be an important mediator of organ inflammation during sepsis. During experimental human endotoxemia, the monomeric and total sMD-2 content in plasma increased with the
		the monomeric and total sMD-2 content in plasma increased with the kinetics of an acute phase protein. This parallels enhanced TLR4 costimulatory activity. In vitro studies revealed that sMD-2 release appears to
References	1. 2 3. 4. 5.	Nomura; F et al. J Immunol 2000; 164: 3476 Akashi, S et al J Immunol 2000, 164: 3471 Sato; S et al. J Immunol 2000; 165: 7096 Ortega-Cava C et al. J Immunol 2003; 170: 3977 Tsujimoto H J et al. hepatology 2006; 45: 836

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