TLR4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TLR4, Polyclonal Antibody
Full Product Name	TLR4 Polyclonal Antibody Cy3 Conjugated
Product Gene Name	anti-TLR4 antibody
Product Synonym Names	Toll-like receptor 4; TLR4; CD284
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Aqueous buffered solution containing 1% BSA, 50% glycerol and 0.09% sodium azide.
Purity/Purification	Purified by Protein A
Concentration	1mgml (lot specific)
Preparation and Storage	Store at 4 degree C for 12 months.
Molecular Weight	95,680 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (120466453..120479769). Location: 9q33.1
OMIM	603030
3D Structure	ModBase 3D Structure for O00206
Conjugation	Cy3
Excitation Emission	512,550nm 570,615nm
Immunogen	KLH conjugated synthetic peptide aa 715-750 839 derived from human TLR4
Product Categories/Family for anti-TLR4 antibody	Conjugated Primary Antibodies
Applications Tested/Suitable for anti-TLR4 antibody	Immunofluorescence (IF)
Application Notes for anti-TLR4 antibody	IF: 1:50-200
Related Product Information for anti-TLR4 antibody	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 (PubMed:9237759, PubMed:10835634). Also involved in LPS-independent inflammatory responses triggered by free fatty acids, such as palmitate, and Ni2+. Responses triggered by Ni2+ require non-conserved histidines and are, therefore, species-specific (PubMed:20711192). Both M.tuberculosis HSP70 (dnaK) and HSP65 (groEL-2) act via this protein to stimulate NF-kappa-B expression (PubMed:15809303). In complex with TLR6, promotes sterile inflammation in monocytes macrophages in response to oxidized low-density lipoprotein (oxLDL) or amyloid-beta 42. In this context, the initial signal is provided by oxLDL- or amyloid-beta 42-binding to CD36. This event induces the formation of a heterodimer of TLR4 and TLR6, which is rapidly internalized and triggers inflammatory response, leading to the NF-kappa-B-dependent production of CXCL1, CXCL2 and CCL9 cytokines, via MYD88 signaling pathway, and CCL5 cytokine, via TICAM1 signaling pathway, as well as IL1B secretion. Binds electronegative LDL (LDL-) and mediates the cytokine release induced by LDL- (PubMed:23880187).

Other Notes	Small volumes of anti-TLR4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TLR4 purchase	MBS9460909 is an antibody targeting TLR4. Also known as TLR4 Polyclonal Antibody Cy3 Conjugated. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TLR4. It may not necessarily be applicable to this product.

NCBI GI #	4507533
NCBI GeneID	7099
NCBI Accession #	NP_003257.1
UniProt Primary Accession #	O00206
UniProt Secondary Accession #	Q5VZI8; Q5VZI9; Q9UK78; Q9UM57; A8K1Y8; A9XLP9; A9XLQ0; A9XLQ1; B4E194
UniProt Related Accession #	O00206
GenBank Nucleotide #	NM_003266.3
NCBI Official Full Name	toll-like receptor 4 isoform C
NCBI Official Synonym Full Names	toll-like receptor 4
NCBI Official Symbol	TLR4
NCBI Official Synonym Symbols	TOLL; CD284; TLR-4; ARMD10
UniProt Protein Name	Toll-like receptor 4
UniProt Synonym Protein Names	hToll
Protein Family	Toll-like receptor
UniProt Gene Name	TLR4
UniProt Entry Name	TLR4_HUMAN
NCBI Protein Information	toll-like receptor 4; hToll; homolog of Drosophila toll
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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