

Product datasheet

info@arigobio.com

ARG22986 anti-CD284 / TLR4 antibody [HTA125]

Package: 100 μg Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [HTA125] recognizes CD284 / TLR4

Tested Reactivity Hu, Dog, Gpig, Pig, R. Mk

Tested Application CyTOF®-candidate, FACS, IP, WB

Host Mouse

Clone HTA125

Isotype IgG2a

Target Name CD284 / TLR4

Species Human

Immunogen Ba/F3 cell line expressing TLR4 (CD284).

Conjugation Un-conjugated

Alternate Names CD284; CD antigen CD284; ARMD10; hToll; TLR-4; TOLL; Toll-like receptor 4

Application Instructions

Application table	Application	Dilution
	CyTOF®-candidate	Assay-dependent
	FACS	Neat
	IP	Assay-dependent
	WB	Assay-dependent
Application Note	FACS: Use 10 μ l of the suggested working dilution to label 10^6 cells or 100 μ l whole blood. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid	
Purification	Purification with Protein G.	
Buffer	PBS and 0.09% Sodium azide	
Preservative	0.09% Sodium azide	
Concentration	1 mg/ml	
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.	

Bioinformation

Gene Symbol

TLR4

Gene Full Name

toll-like receptor 4

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 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 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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

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 free fatty acids, such as palmitate, and Ni(2+). Responses triggered by Ni(2+) require nonconserved histidines and are, therefore, species-specific. 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. [UniProt]

Highlight

Related products:

TLR4 antibodies; TLR4 ELISA Kits; Anti-Mouse IgG secondary antibodies;

Related news:

CyTOF-candidate Antibodies

Detecting exosomal HMGB1 for ICD research

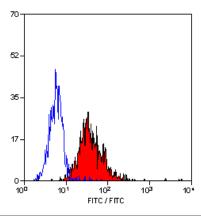
Calculated Mw

96 kDa

PTM

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.

Images



ARG22986 anti-CD284 / TLR4 antibody [HTA125] FACS image

Flow Cytometry: Human peripheral blood monocytes stained with ARG22986 anti-CD284 / TLR4 antibody [HTA125].