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CD284 Antibody [HTA125]

CATALOG NUMBER: 76-963

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	FACS, Func
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The HTA125 monoclonal antibody specifically reacts with human CD284, a 110kDA type I transmembrane signaling molecule known as the Toll-like Receptor 4 (TLR4).
HOST SPECIES:	Mouse

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/µg of the protein.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ph7.2.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	The product should be stored undiluted at 4˚C . Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Mouse IgG2a, kappa
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	TOLL, CD284, TLR-4, ARMD10, TLR4
OFFICIAL SYMBOL:	TLR4
GENE ID:	7099

Background

BACKGROUND:	The HTA125 monoclonal antibody specifically reacts with human CD284, a 110kDA type I transmembrane signaling molecule known as the Toll-like Receptor 4 (TLR4). CD284 is an important molecule in the innate immunity response to bacterial lipoproteins. It is expressed by monocytes, macrophages, and endothelial cells. The HTA125 antibody can block Lipopolysaccharide-induced cytokine production and immunoprecipitate human TLR4.
REFERENCES:	1) Akashi, S., Ogata, H., Kirikae, F., Kirikae, T., Kawasaki, K., Nishijima, M., ... Miyake, K. (2000). Regulatory roles for CD14 and phosphatidylinositol in the signaling via toll-like receptor 4-MD-2.Biochemical and biophysical research communications,268(1), 172-177.
	2) Shimazu, R., Akashi, S., Ogata, H., Nagai, Y., Fukudome, K., Miyake, K., Kimoto, M. (1999). MD-2, a molecule that confers lipopolysaccharide responsiveness on Toll-like receptor 4.The Journal of experimental medicine,189(11), 1777-1782.
	3) Mirlashari, M. R., Lyberg, T. (2003). Expression and involvement of Toll-like receptors (TLR) 2, TLR4, and CD14 in monocyte TNF-alpha production induced by lipopolysaccharides from Neisseria meningitidis.Medical science monitor: international medical journal of experimental and clinical research,9(8), BR316-24.

FOR RESEARCH USE ONLY

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