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DATA SHEET

Mouse Anti-CD284/Toll-like Receptor 4 [25]: MC0024, MC0024RTU7

Intended Use: For Research Use Only

Description: This antibody reacts with human Toll-like receptor 4 (TLR4). It 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.

Specifications:

Clone:	25
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, mouse, rat, canine
Localization:	Membrane
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, IF, IP, WB

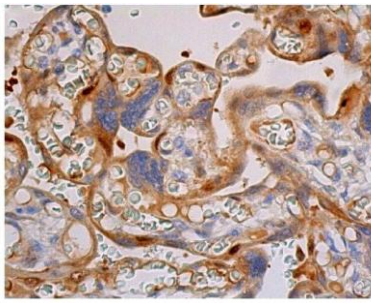
Package:

Description	Catalog No.	Size
CD284/Toll-like Receptor 4 Concentrated	MC0024	1 ml
CD284/Toll-like Receptor 4 Prediluted	MC0024RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Human placenta and adrenal
Concentrated Dilution:	50-200
Pretreatment:	Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human placenta tissue stained with anti-CD284 using DAB

References

1. Loss of C/EBPδ Exacerbates Radiation-Induced Cognitive Decline in Aged Mice due to Impaired Oxidative Stress Response. Banerjee, S. Int J Mol Sci. Feb 18;20(4), 2019.
2. Prognostic value of myeloid differentiation primary response 88 and Toll-like receptor 4 in breast cancer patients. Ma FJ, et al. PLoS One. 2014 Oct 31;9(10):e111639, 2014.
3. Knockdown of toll-like receptor 4 inhibits human NSCLC cancer cell growth and inflammatory cytokine secretion in vitro and in vivo. Li D, et al. Int J Oncol. 2014 Aug;45(2):813-21, 2014.

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