



## CD284 Antibody [HTA125] (PE)

CATALOG NUMBER: 76-964

### Specifications

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

### Properties

<b>PURIFICATION:</b>	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
<b>PHYSICAL STATE:</b>	liquid
<b>BUFFER:</b>	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.
<b>CONCENTRATION:</b>	5 uL (2.0 ug) / test
<b>STORAGE CONDITIONS:</b>	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
<b>CLONALITY:</b>	Monoclonal
<b>ISOTYPE:</b>	Mouse IgG2a, kappa
<b>CONJUGATE:</b>	PE

### Additional Info

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

### Background

<b>BACKGROUND:</b>	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.
<b>REFERENCES:</b>	<p>1) Yang, D., Liu, Y., Chen, Y., Jiao, D., Hou, X., Wang, L., Fu, N. (2012). Pretreatment with Mycobacterium avium-derived lipids attenuates the response of murine macrophages to components of Mycobacterium tuberculosis. <i>International journal of molecular medicine</i>, 29(6), 1072.</p> <p>2) Nomura, F., Akashi, S., Sakao, Y., Sato, S., Kawai, T., Matsumoto, M., ... Akira, S. (2000). Cutting edge: endotoxin tolerance in mouse peritoneal macrophages correlates with down-regulation of surface toll-like receptor 4 expression. <i>The Journal of Immunology</i>, 164(7), 3476-3479.</p> <p>3) Sato, S., Nomura, F., Kawai, T., Takeuchi, O., Mhlradt, P. F., Takeda, K., Akira, S. (2000). Synergy and cross-tolerance between toll-like receptor (TLR) 2-and TLR4-mediated signaling pathways. <i>The Journal of Immunology</i>, 165(12), 7096-7101.</p>

