



# CD284 Antibody [HTA125] (PE)

Cat. No.: 76-965



## Ψ Specifications

<b>HOST SPECIES:</b>	Mouse
<b>SPECIES REACTIVITY:</b>	Human
<b>TESTED APPLICATIONS:</b>	Flow
<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).

## Ψ Properties

<b>PURIFICATION:</b>	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
<b>CLONALITY:</b>	Monoclonal
<b>ISOTYPE:</b>	Mouse IgG2a, kappa
<b>CONJUGATE:</b>	PE
<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>	batch dependent

<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.
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## Ψ Additional Info

<b>OFFICIAL SYMBOL:</b>	TLR4
<b>ALTERNATE NAMES:</b>	TOLL, CD284, TLR-4, ARMD10, TLR4
<b>GENE ID:</b>	7099
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.

## Ψ Background and References

<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>	1) Hutloff, A., Dittrich, A. M., Beier, K. C., Eljaschewitsch, B., Kraft, R., Anagnostopoulos, I., Kroczeck, R. A. (1999). ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28. <i>Nature</i> , 402, 21-24.
	2) Quiroga, M. F., Pasquinelli, V., Martnez, G. J., Jurado, J. O., Zorrilla, L. C., Musella, R. M., ... Garca, V. E. (2006). Inducible costimulator: a modulator of IFN- $\gamma$ production in human tuberculosis. <i>The Journal of Immunology</i> , 176(10), 5965-5974.
	3) Buonfiglio, D., Bragardo, M., Redoglia, V., Vaschetto, R., Bottarel, F., Bonisconi, S., ... Dianzani, U. (2000). The T cell activation molecule H4 and the CD28-like molecule ICOS are identical. <i>European journal of immunology</i> , 30(12), 3463-3467.

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