## SONY

## PE/Dazzle<sup>™</sup> 594 anti-human CD223 (LAG-3)

Catalog # / Size:	2446090 / 100 tests 2446085 / 25 tests
Clone:	7H2C65
lsotype:	Mouse IgG1, к
Immunogen:	Human LAG-3 transfected cells.
<b>Reactivity:</b>	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)
Workshop Number:	HCDM listed
Concentration:	Lot-specific



Anti-CD3/CD28 and recombinant IL-2 stimulated (three days) peripheral blood monocular cells (PBMCs) were stained with CD8 APC and CD223 (LAG-3) (clone 7H2C65) PE/Dazzle™ 594 (left) or mouse IgG1, κ PE/Dazzle™ 594 isotype control (right).

## **Applications:**

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ L per million cells in 100 $\mu$ L staining volume or 5 $\mu$ L per 100 $\mu$ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
	* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.
Application Notes:	The staining of clone 7H2C65 cannot be blocked by clone 11C3C65, which is another anti-human CD223 (LAG-3) antibody.
Application References:	<ol> <li>Costes V, et al. 1999. Hum. Pathol. 30:1405. (IF)</li> <li>Gattei V, et al. 1999. Br. J. Haematol. 104:152. (WB)</li> <li>Bologna-Molina R, et al. 2008. Oral Oncol. 44:805. (IHC)</li> <li>Itoua MR, et al. 2014. Biomed. Res. Int. 2014:536482.</li> </ol>
Description:	CD223, also known as LAG-3, is a 70 kD type I transmembrane glycoprotein

**Description:** CD223, also known as LAG-3, is a 70 kD type i transmembrane glycoprotein that is involved in T-cell signaling. Similar to CD4, CD223 binds MHC class II, but with a higher affinity. CD223 negatively regulates T-cell activation. It is expressed by activated T-cells and natural killer cells (NKs), as well as regulatory T-cells. It is transiently expressed on the surface of activated T-cells in acute conditions but high expression is maintained under tolerizing conditions. CD223 deficiency results in reduced tumor growth. CD223 and PD-1 can act in synergy and reverse exhausted phenotypes, improve tumor rejection, and control viral load.

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Antigen	1. Castelli C, et al. 2014. Oncoimmunology 3(11):e967146.
References:	2. Poirier N, et al. 2011. Clin. Exp. Immunol. 164:265.
	3. Juno JA, et al. 2015. Retrovirology 12:17.
	4. Casati C, et al. 2006. Cancer Res. 66:4450.