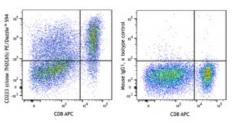
SONY

PE/Dazzle[™] 594 anti-human CD223 (LAG-3)

| Catalog # / Size: | 2446085 / 25 tests 2446090 / 100 tests |
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| Clone: | 7H2C65 |
| lsotype: | Mouse IgG1, к |
| Immunogen: | Human LAG-3 transfected cells. |
| Reactivity: | 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:

| A | |
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| 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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ 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: | Costes V, et al. 1999. Hum. Pathol. 30:1405. (IF) Gattei V, et al. 1999. Br. J. Haematol. 104:152. (WB) Bologna-Molina R, et al. 2008. Oral Oncol. 44:805. (IHC) Itoua MR, et al. 2014. Biomed. Res. Int. 2014:536482. |
| 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. |
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| References: | 2. Poirier N, et al. 2011. Clin. Exp. Immunol. 164:265. |
| | 3. Juno JA, et al. 2015. Retrovirology 12:17. |
| | 4. Casati C, <i>et al.</i> 2006. <i>Cancer Res.</i> 66:4450. |