

Brilliant Violet 650™ anti-human CD223 (LAG-3)

Catalog # / 2446580 / 100 tests
Size: 2446575 / 25 tests

Clone: 11C3C65

Isotype: Mouse IgG1, κ

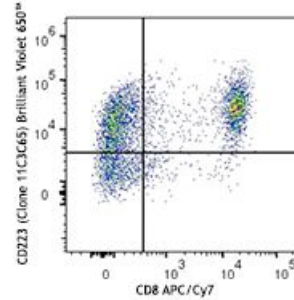
Immunogen: Human LAG-3 transfected cells.

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 650™ and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

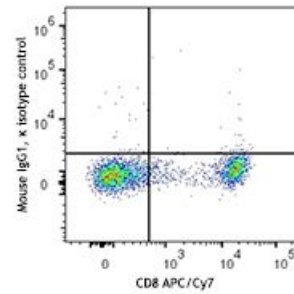
Concentration: Lot-specific



CD3/CD28/IL-2 stimulated (three days) peripheral blood mononuclear cells were stained with CD8 APC/Cy7 and CD223 (clone 11C3C65) Brilliant Violet 650™ (top) or mouse IgG1, κ Brilliant Violet 650™ isotype control (bottom).

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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 650™ is a trademark of Sirigen Group Ltd.

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Application Notes: The staining of clone 11C3C65 cannot be blocked by clone 7H2C65, which is another anti-human CD223 (LAG-3) antibody.

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.

Antigen References:

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