SONY

Product Data Sheet

Alexa Fluor® 488 anti-human CD223 (LAG-3)

Catalog # / Size: 2446630 / 100 tests
2446625 / 25 tests

Clone: 11C3C65

Isotype: Mouse IgG1, κ

Immunogen: Human LAG-3 transfected cells.

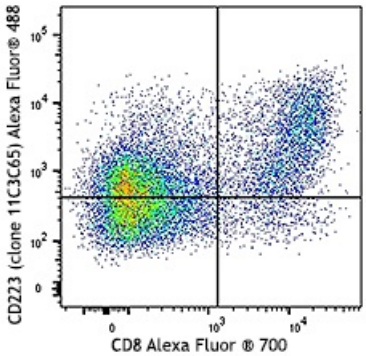
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.

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

Workshop Number: 750 under optimal conditions.

Concentration: Lot-specific



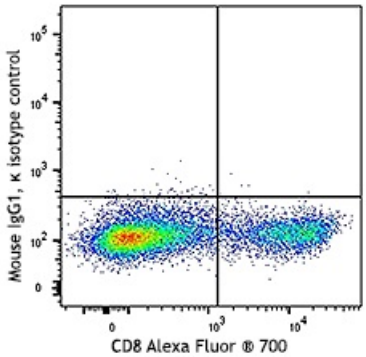
CD3/CD28/IL-2 stimulated (three days) peripheral blood mononuclear cells were stained with CD8 Alexa Fluor® 700 and CD223 (clone 11C3C65) Alexa Fluor® 488 (top) or mouse IgG1, κ Alexa Fluor® 488 isotype control (bottom).

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

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



Application 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*

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.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

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 al.* 2006. *Cancer Res.* 66:4450.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.