

Spark Blue™ 574 anti-human CD223 (LAG-3) Antibody

Catalog# / Size	369357 / 25 tests 369358 / 100 tests
Clone	11C3C65
Regulatory Status	RUO
Other Names	CD223, LAG-3, LAG3, lymphocyte-activation gene-3
Isotype	Mouse IgG1, κ
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.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human LAG-3 transfected cells.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark Blue™ 574 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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. * Spark Blue™ 574 has a maximum excitation of 506 nm and a maximum emission of 574 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	The staining of clone 11C3C65 cannot be blocked by clone 7H2C65, which is another anti-human CD223 (LAG-3) antibody.

Antigen Details

Structure	70 kD transmembrane glycoprotein, Ig superfamily, highly homologous to CD4.
Distribution	Activated T-cells and natural killer cells (NKs) and regulatory T cells.

Function	Negatively regulates T-cell activation.
Ligand/Receptor	Binds MHC class II molecules.
Cell Type	Dendritic cells, NK cells, T cells, Tregs
Biology Area	Immunology, Inhibitory Molecules
Molecular Family	CD Molecules, Immune Checkpoint Receptors
Antigen References	1. Castelli C, <i>et al.</i> 2014. <i>Oncoimmunology</i>. 3(11):e967146. 2. Poirier N, <i>et al.</i> 2011. <i>Clin. Exp. Immunol.</i> 164:265. 3. Juno JA, <i>et al.</i> 2015. <i>Retrovirology</i>. 12:17. 4. Casati C, <i>et al.</i> 2006. <i>Cancer Res.</i> 66:4450.
Gene ID	3902

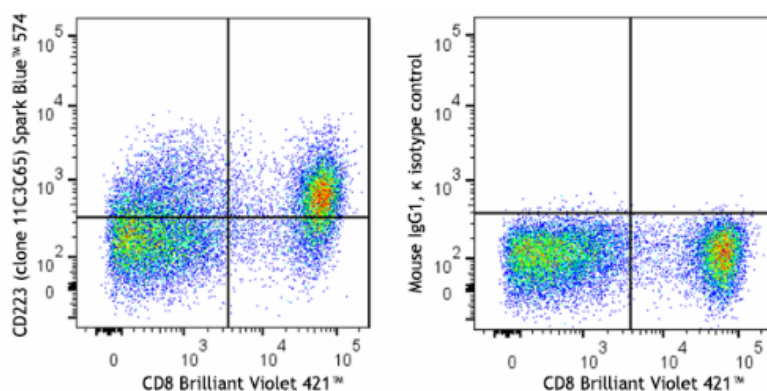
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

TotalSeq™-D0152 anti-human CD223 (LAG-3), PE/Cyanine5 anti-human CD223 (LAG-3), Alexa Fluor® 700 anti-human CD223 (LAG-3), Pacific Blue™ anti-human CD223 (LAG-3), APC/Cyanine7 anti-human CD223 (LAG-3), APC/Fire™ 810 anti-human CD223 (LAG-3), Spark Red™ 718 anti-human CD223 (LAG-3) (Flexi-Fluor™), Purified anti-human CD223 (LAG-3), FITC anti-human CD223 (LAG-3), PE/Cyanine7 anti-human CD223 (LAG-3), PerCP/Cyanine5.5 anti-human CD223 (LAG-3), Alexa Fluor® 647 anti-human CD223 (LAG-3), Brilliant Violet 711™ anti-human CD223 (LAG-3), PE anti-human CD223 (LAG-3), Alexa Fluor® 488 anti-human CD223 (LAG-3), Brilliant Violet 650™ anti-human CD223 (LAG-3), Brilliant Violet 785™ anti-human CD223 (LAG-3), Brilliant Violet 605™ anti-human CD223 (LAG-3), Brilliant Violet 510™ anti-human CD223 (LAG-3), Biotin anti-human CD223 (LAG-3), Spark Blue™ 574 anti-human CD223 (LAG-3) (Flexi-Fluor™), Spark PLUS UV395™ anti-human CD223 (LAG-3), Spark PLUS B550™ anti-human CD223 (LAG-3) Antibody, Brilliant Violet 750™ anti-human CD223 (LAG-3), APC/Fire™ 750 anti-human CD223 (LAG-3), Brilliant Violet 421™ anti-human CD223 (LAG-3), TotalSeq™-C0152 anti-human CD223 (LAG-3), TotalSeq™-B0152 anti-human CD223 (LAG-3), Spark Blue™ 574 anti-human CD223 (LAG-3), PE/Dazzle™ 594 anti-human CD223 (LAG-3), TotalSeq™-A0152 anti-human CD223 (LAG-3)

Product Data



CD3/CD28/IL-2 stimulated (3 days) human peripheral blood mononuclear cells were stained with anti-human CD8 (clone SK1) Brilliant Violet 421™ and anti-human CD223 (LAG-3) (clone 11C3C65) Spark Blue™ 574 (left) or mouse IgG1, κ Spark Blue™ 574 isotype control (right).

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8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587