

PE/Cyanine7 anti-human CD223 (LAG-3) Antibody

Catalog# / Size	369309 / 25 tests 369310 / 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 PE/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	The staining of clone 11C3C65 cannot be blocked by clone 7H2C65, which is another anti-human CD223 (LAG-3) antibody.
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
Product Citations	<ol style="list-style-type: none"> Li M, <i>et al.</i> 2021. J Clin Invest. 131:. PubMed Zhu W, <i>et al.</i> 2021. Onco Targets Ther. 14:2149. PubMed Roberts A, <i>et al.</i> 2021. Sci Rep. 11:4030. PubMed Bilich T, <i>et al.</i> 2021. Cancer Discov. 11:1982. PubMed Vitanza NA, <i>et al.</i> 2021. Nature Medicine. .: PubMed Ferry GM, <i>et al.</i> 2022. Front Immunol. 13:863155. PubMed Huang Z, <i>et al.</i> 2022. Transl Cancer Res. 11:1463. PubMed Nahi H, <i>et al.</i> 2022. Cell Rep Med. 3:100508. PubMed

RRID AB_2629752 (BioLegend Cat. No. 369309)
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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

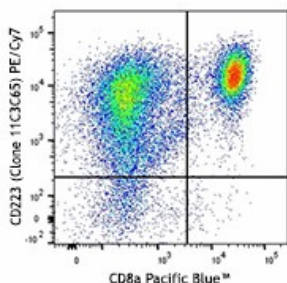
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

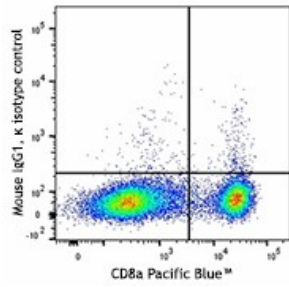
Other Formats

Purified anti-human CD223 (LAG-3), Alexa Fluor® 647 anti-human CD223 (LAG-3), PE 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), Brilliant Violet 421™ anti-human CD223 (LAG-3), Brilliant Violet 650™ anti-human CD223 (LAG-3), Brilliant Violet 510™ anti-human CD223 (LAG-3), Brilliant Violet 785™ anti-human CD223 (LAG-3), Brilliant Violet 711™ anti-human CD223 (LAG-3), Brilliant Violet 605™ anti-human CD223 (LAG-3), Alexa Fluor® 488 anti-human CD223 (LAG-3), Biotin anti-human CD223 (LAG-3), PE/Dazzle™ 594 anti-human CD223 (LAG-3), APC/Fire™ 750 anti-human CD223 (LAG-3), TotalSeq™-A0152 anti-human CD223 (LAG-3), TotalSeq™-C0152 anti-human CD223 (LAG-3), TotalSeq™-B0152 anti-human CD223 (LAG-3), TotalSeq™-D0152 anti-human CD223 (LAG-3), Alexa Fluor® 700 anti-human CD223 (LAG-3), Pacific Blue™ anti-human CD223 (LAG-3), PE/Cyanine5 anti-human CD223 (LAG-3), APC/Cyanine7 anti-human CD223 (LAG-3), APC/Fire™ 810 anti-human CD223 (LAG-3)

Product Data



CD3/CD28/IL-2 stimulated (three days) peripheral blood mononuclear cells were stained with CD8a Pacific Blue™ and CD223 (clone 11C3C65) PE/Cyanine7 (top) or mouse IgG1, κ PE/Cyanine7 isotype control (bottom).



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