

PE/Fire™ 744 anti-human CD223 (LAG-3) Antibody

Catalog# / Size	369227 / 25 tests 369228 / 100 tests
Clone	7H2C65
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/Fire™ 744 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 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. True-Stain Monocyte Blocker™ (Cat No. 426102) is recommended to minimize non-specific staining of PE/Fire™ 744 on monocytes and macrophages. * PE/Fire™ 744 has a maximum excitation of 565 nm and a maximum emission of 744 nm.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	The staining of clone 7H2C65 cannot be blocked by clone 11C3C65, 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	MHC class II molecules.
Cell Type	Dendritic cells, NK cells, T cells, Tregs
Biology Area	Immunology, Inhibitory Molecules
Molecular Family	CD Molecules
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

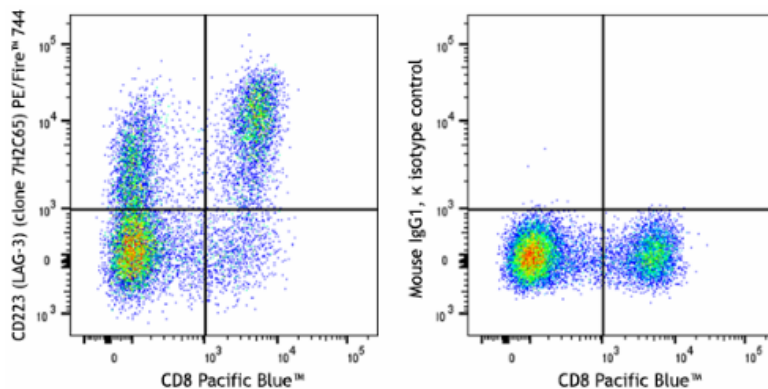
Related Protocols

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

Other Formats

PerCP/Cyanine5.5 anti-human CD223 (LAG-3), APC/Cyanine7 anti-human CD223 (LAG-3), PE/Dazzle™ 594 anti-human CD223 (LAG-3) Antibody, PE/Fire™ 640 anti-human CD223 (LAG-3), PE/Fire™ 810 anti-human CD223 (LAG-3), Spark Red™ 718 anti-human CD223 (LAG-3) (Flexi-Fluor™), Purified anti-human CD223 (LAG-3), Alexa Fluor® 647 anti-human CD223 (LAG-3), PE/Cyanine7 anti-human CD223 (LAG-3), PE anti-human CD223 (LAG-3), APC anti-human CD223 (LAG-3), FITC anti-human CD223 (LAG-3), PE/Fire™ 700 anti-human CD223 (LAG-3), APC/Fire™ 750 anti-human CD223 (LAG-3), APC anti-human CD223, PE/Fire™ 744 anti-human CD223 (LAG-3)

Product Data



CD3/CD28 with IL-2 stimulated (3 days) peripheral blood mononuclear cells were stained with anti-human CD8 (clone RPA-T8) Pacific Blue™ and anti-human CD223 (LAG-3) (clone 7H2C65) PE/Fire™ 744 (left) or mouse IgG1, κ PE/Fire™ 744 isotype control (right).

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