

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

<b>Catalog# / Size</b>	125259 / 25 µg 125260 / 100 µg
<b>Clone</b>	C9B7W
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	LAG3, LAG-3
<b>Isotype</b>	Rat IgG1, κ
<b>Description</b>	CD223, also known as LAG-3, is 70 kD type I transmembrane glycoprotein within the Ig superfamily. It is the gene product of lymphocyte activation gene-3 (Lag3) with structural similarity to CD4. CD223 is expressed on activated T cells and NK cells, as well as T regulatory cells. CD223, like CD4, binds MHC class II molecules, but with higher affinity than CD4. In association with the CD3 complex, CD223 has been shown as a negative regulatory molecule to inhibit TCR-mediated signaling and regulate homeostatic T cell expansion. In contrast to inhibition, CD223 has an activation function to promote immune responses by inducing MHC class II signaling in antigen presenting cells.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Murine CD223-Ig fusion protein
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 744 under optimal conditions.
<b>Concentration</b>	0.2 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a>. For flow cytometric staining, the suggested use of this reagent is ≤ 0.06 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>True-Stain Monocyte Blocker™ (Cat No. 426102) is recommended to minimize non-specific staining of PE/Fire™ 744 on monocytes and macrophages.</p> <p>* PE/Fire™ 744 has a maximum excitation of 565 nm and a maximum emission of 744 nm.</p>
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application References</b>	<ol style="list-style-type: none"><li>1. Workman CJ, <i>et al.</i> 2002. <i>Eur. Immunol.</i> 32:2255. (IP, ELISA)</li><li>2. Workman CJ, <i>et al.</i> 2005. <i>J. Immunol.</i> 174:688. (FC)</li><li>3. Li N, <i>et al.</i> 2004. <i>J. Immunol.</i> 173:6806. (IP, ELISA)</li></ol>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_3683154 (BioLegend Cat. No. 125259) AB_3683154 (BioLegend Cat. No. 125260)

### Antigen Details

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<b>Structure</b>	Ig superfamily
<b>Distribution</b>	T cells and NK cells, as well as T regulatory cells
<b>Cell Type</b>	NK cells, T cells, Tregs
<b>Biology Area</b>	Immunology, Inhibitory Molecules
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	1. Baixeras E <i>et al.</i> 1992. <i>J. Exp. Med.</i> 176:327.
<b>Gene ID</b>	<a href="#">16768</a>

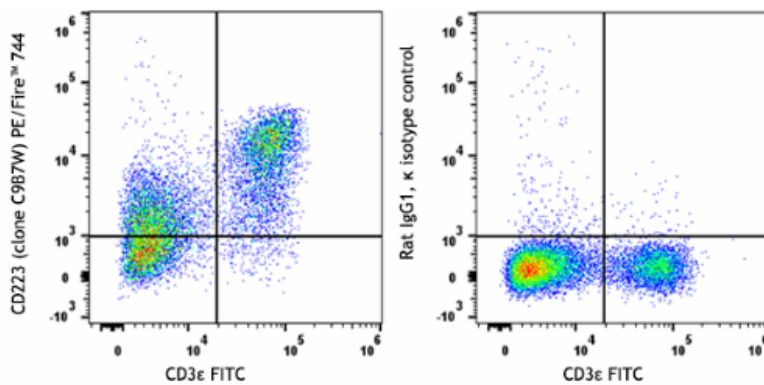
## Related Protocols

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

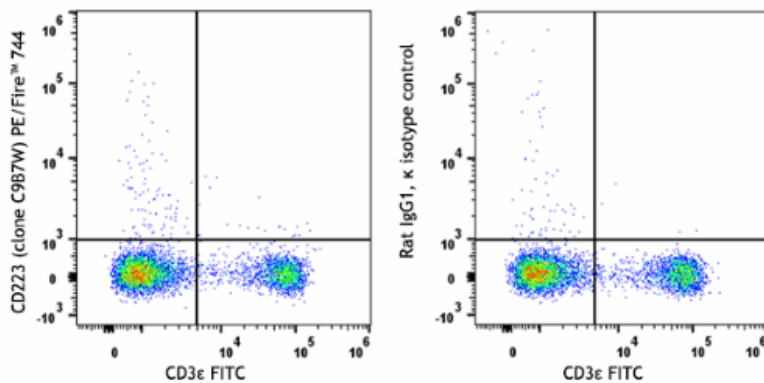
## Other Formats

Purified anti-mouse CD223 (LAG-3), Biotin anti-mouse CD223 (LAG-3), PE anti-mouse CD223 (LAG-3), APC anti-mouse CD223 (LAG-3), PerCP/Cyanine5.5 anti-mouse CD223 (LAG-3), Brilliant Violet 785™ anti-mouse CD223 (LAG-3), GolnVivo™ Purified anti-mouse CD223 (LAG-3), Brilliant Violet 421™ anti-mouse CD223 (LAG-3), PE/Dazzle™ 594 anti-mouse CD223 (LAG-3), Brilliant Violet 650™ anti-mouse CD223 (LAG-3), PE/Cyanine7 anti-mouse CD223 (LAG-3), TotalSeq™-A0378 anti-mouse CD223 (LAG-3), Ultra-LEAF™ Purified anti-mouse CD223 (LAG-3), TotalSeq™-C0378 anti-mouse CD223 (LAG-3), APC/Fire™ 750 anti-mouse CD223 (LAG-3), Alexa Fluor® 647 anti-mouse CD223 (LAG-3), TotalSeq™-B0378 anti-mouse CD223 (LAG-3), Brilliant Violet 711™ anti-mouse CD223 (LAG-3), PE/Fire™ 640 anti-mouse CD223 (LAG-3), PerCP/Fire™ 806 anti-mouse CD223 (LAG-3), PerCP/Fire™ 780 anti-mouse CD223 (LAG-3), Spark Red™ 718 anti-mouse CD223 (LAG-3) (Flexi-Fluor™), PE/Cyanine5 anti-mouse CD223 (LAG-3), PE/Fire™ 810 anti-mouse CD223 (LAG-3), Brilliant Violet 605™ anti-mouse CD223 (LAG-3), PE/Fire™ 744 anti-mouse CD223 (LAG-3), PE/Fire™ 700 anti-mouse CD223 (LAG-3)

## Product Data



ConA + IL-2 stimulated (3 days) C57BL/6 splenocytes were stained with anti-mouse CD3ε (clone 145-2C11) FITC and anti-mouse CD223 (LAG-3) (clone C9B7W) PE/Fire™ 744 (left) or rat IgG1, κ PE/Fire™ 744 isotype control (right).



Unstimulated C57BL/6 splenocytes were stained with anti-mouse CD3ε (clone 145-2C11) FITC and anti-mouse CD223 (LAG-3) (clone C9B7W) PE/Fire™ 744 (left) or rat IgG1, κ PE/Fire™ 744 isotype control (right).

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