

## APC anti-mouse CD339 (Jagged 1) Antibody

<b>Catalog# / Size</b>	130913 / 25 µg 130914 / 100 µg
<b>Clone</b>	HMJ1-29
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	JAG1, Jagged1
<b>Isotype</b>	Armenian Hamster IgG
<b>Description</b>	CD339, also known as Jagged 1, is a 135 kD type 1 transmembrane protein, with one DSL (Delta, Serrate, LagZ) domain, fifteen EGF-like domains, and one cysteine-rich region. Jagged 1 is expressed by many cell types including macrophages, subsets of dendritic cells, astrocytes, stromal, and epithelial cells. CD339 regulates cell fate decisions in various tissues, and has an important role in neurogenesis and development of the cardiovascular system. Studies suggest Jagged 1 is involved in Th2 polarization and Treg induction.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Armenian Hamster
<b>Immunogen</b>	Murine Jagged 1-Fc 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 APC 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>	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 ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: <i>in vivo</i> blocking of Jagged 1 in EAE <sup>1</sup> and immunohistochemical staining of frozen spleen sections <sup>2</sup> .
<b>Application References</b> (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"><li>1. Elyaman W, <i>et al.</i> 2007. <i>J. Immunol.</i> 179:5990. (Block)</li><li>2. Sekine C, <i>et al.</i> 2009. <i>Int. Immunol.</i> 21:295. (IHC)</li></ol>
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Menzel L, <i>et al.</i> 2021. <i>Cell Rep.</i> 37:109878. <a href="#">PubMed</a></li><li>2. Enriquez AB, <i>et al.</i> 2022. <i>iScience.</i> 25:104305. <a href="#">PubMed</a></li><li>3. Enriquez AB, <i>et al.</i> 2022. <i>iScience.</i> 25:104305. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_2561304 (BioLegend Cat. No. 130913) AB_2561305 (BioLegend Cat. No. 130914)

## Antigen Details

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<b>Structure</b>	Type 1 transmembrane protein, 1 DSL (Delta, Serrate, LagZ) domain, 15 EGF-like domains, 1 cysteine rich region; 135 kD
<b>Distribution</b>	Macrophages, subsets of dendritic cells, stromal cells, epithelial cells, astrocytes
<b>Function</b>	Regulates cell fate decisions in various tissues, important role in cardiovascular system development, neurogenesis, and T cell polarization to Th2 lineage
<b>Ligand/Receptor</b>	Notch1, Notch2, Notch3
<b>Cell Type</b>	Astrocytes, Dendritic cells, Epithelial cells, Macrophages
<b>Biology Area</b>	Angiogenesis, Cell Biology, Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Amsen D, <i>et al.</i> 2004. <i>Cell</i>. 117:515.</li><li>2. Cheng P, <i>et al.</i> 2007. <i>Blood</i>. 109: 507.</li><li>3. Goh F, <i>et al.</i> 2009. <i>Immunology</i>. 127:326.</li><li>4. Zeng H, <i>et al.</i> 2012. <i>PLoS One</i>. 7:e35905.</li></ol>
<b>Gene ID</b>	<a href="#">16449</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

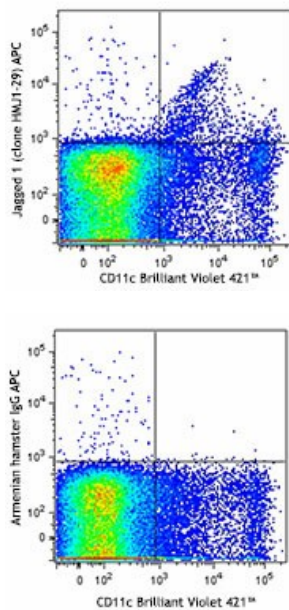
## Other Formats

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Purified anti-mouse CD339 (Jagged 1), PE anti-mouse CD339 (Jagged 1), APC anti-mouse CD339 (Jagged 1), TotalSeq™-B0887 anti-mouse CD339 (Jagged 1) Antibody

## Product Data

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Collagenase-digested C57BL/6 mouse splenocytes were stained with CD11c Brilliant Violet 421™ and Jagged 1 (clone HMJ1-29) APC (top) or Armenian hamster IgG APC isotype control (bottom).

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