

Purified anti-mouse CD339 (Jagged 1) Antibody

Catalog# / Size	130902 / 500 µg
Clone	HMJ1-29
Regulatory Status	RUO
Other Names	JAG1, Jagged1
Isotype	Armenian Hamster IgG
Description	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

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Armenian Hamster
Immunogen	Murine Jagged 1-Fc fusion protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested IHC-F - Reported in the literature, not verified in house
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 ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Additional reported applications (for the relevant formats) include: <i>in vivo</i> blocking of Jagged 1 in EAE ¹ and immunohistochemical staining of frozen spleen sections ² .
Application References (PubMed link indicates BioLegend citation)	1. Elyaman W, <i>et al.</i> 2007. <i>J. Immunol.</i> 179:5990. (Block) 2. Sekine C, <i>et al.</i> 2009. <i>Int. Immunol.</i> 21:295. (IHC)
Product Citations	1. Enriquez AB, <i>et al.</i> 2022. <i>iScience.</i> 25:104305. PubMed 2. Enriquez AB, <i>et al.</i> 2022. <i>iScience.</i> 25:104305. PubMed 3. Martinez-Lozada Z, <i>et al.</i> 2020. <i>Neurochemistry International.</i> 139:104787. PubMed 4. Sharma VP, <i>et al.</i> 2021. <i>Nat Commun.</i> 12:7300. PubMed
RRID	AB_2561301 (BioLegend Cat. No. 130902)

Antigen Details

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

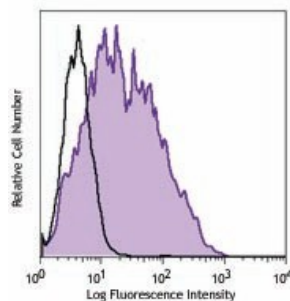
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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



Mouse Jagged 1 transfected CHO cells were stained with purified HMJ1-29 (filled histogram) or purified Armenian hamster IgG isotype control (open histogram), followed by anti-hamster IgG PE.

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