

TotalSeq™-B0887 anti-mouse CD339 (Jagged 1) Antibody

Catalog# / Size	130917 / 10 µg
Clone	HMJ1-29
Regulatory Status	RUO
Other Names	JAG1, Jagged1
Isotype	Armenian Hamster IgG
Barcode Sequence	TAGTATGCTGGAGCG
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 and 1 mM EDTA
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-B oligomer under optimal conditions.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	PG - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-B antibodies are compatible with 10x Genomics Single Cell Gene Expression Solutions.</p> <p>To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.</p> <p>Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.</p>
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 .
Additional Product Notes	<p>TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. 10x Genomics Chromium System and Reagents) and sequencer (e.g. Illumina analyzers) are required. Please contact technical support for more information, or visit biolegend.com/totalseq.</p> <p>The barcode flanking sequences are</p>

GTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCTNNNNNNNNNN (PCR handle), and NNNNNNNNGCTTTAAGGCCGGTCCTAGC*A*A (capture sequence). N represents either randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Scientific Poster Library](#).

Application References

(PubMed link indicates BioLegend citation)

1. Elyaman W, *et al.* 2007. *J. Immunol.* 179:5990. (Block)
2. Sekine C, *et al.* 2009. *Int. Immunol.* 21:295. (IHC)

RRID AB_2890687 (BioLegend Cat. No. 130917)

Antigen Details

Structure	Type 1 transmembrane protein, 1 DSL (Delta, Serrate, LagZ) domain, 15 EGF-like domains, 1 cysteine rich region; 135 kD
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

[TotalSeq™-B or -C with 10x Feature Barcoding Technology](#)

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

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