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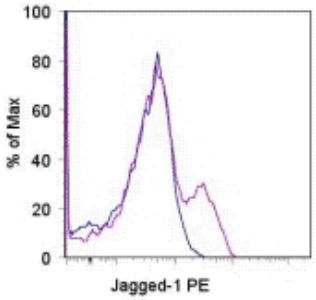
Anti-Mouse CD339 (Jagged 1) PE

Catalog Number: 12-3391
Also Known As: JAG1, Jagged1
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of CD8+CD11c+ C57BL/6 splenocytes with 0.5 ug of Armenian Hamster IgG Isotype Control PE (cat. 12-4888) (blue histogram) or 0.5 ug of Anti-Mouse CD339 (Jagged 1) PE (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD339 (Jagged 1) PE
REF Catalog Number: 12-3391
Clone: HMJ1-29
Concentration: 0.2 mg/mL
Host/Isotype: Armenian Hamster IgG

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Contains sodium azide

Description

This HMJ1-29 monoclonal antibody reacts with mouse Jagged-1, one of five type I transmembrane proteins that serves as a Notch receptor ligand. Upon binding the Notch receptor (e.g. Notch 1-4), Jagged-1 undergoes proteolytic cleavage, first by ADAM-family metalloproteases and then by gamma-secretase. The second cleavage event releases an intracellular fragment whose biological function remains controversial. Jagged-1 is expressed by thymic lymphoid and stromal cells, as well as macrophages and CD8+CD11c+ dendritic cells in the spleen.

The HMJ1-29 antibody is reported to crossreact to rat.

Applications Reported

This HMJ1-29 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This HMJ1-29 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Kopan R, Ilagan MX. The canonical Notch signaling pathway: unfolding the activation mechanism. Cell. 2009 Apr 17;137(2):216-33. Review.

Sekine C, Moriyama Y, Koyanagi A, Koyama N, Ogata H, Okumura K, Yagita H. Differential regulation of splenic CD8- dendritic cells and marginal zone B cells by Notch ligands. Int Immunol. 2009 Mar;21(3):295-301. (HMJ1-29, FC, Pubmed)

Yamaguchi E, Chiba S, Kumano K, Kunisato A, Takahashi T, Takahashi T, Hirai H. Expression of Notch ligands, Jagged1, 2 and Delta1 in antigen presenting cells in mice. Immunol Lett. 2002 Apr 1;81(1):59-64.

Related Products

11-0081 Anti-Mouse CD8a FITC (53-6.7)
12-4888 Armenian Hamster IgG Isotype Control PE (eBio299Arm)
17-0114 Anti-Mouse CD11c APC (N418)

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com