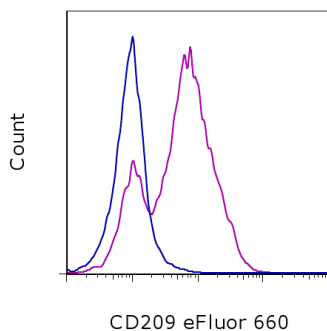


## Anti-Mouse CD209a (DC-SIGN) eFluor<sup>®</sup> 660

Catalog Number: 50-2094

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of CHO-K1 cells transfected with CD209a with staining buffer (autofluorescence) (open histogram) or 0.25  $\mu$ g of Anti-Mouse CD209a (DC-SIGN) eFluor<sup>®</sup> 660 (purple histogram). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD209a (DC-SIGN) eFluor<sup>®</sup> 660

**Catalog Number:** 50-2094

**Clone:** MMD3

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Mouse IgG2c, kappa

**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.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**

### Description

This MMD3 monoclonal antibody recognizes mouse CD209a, which is also known as DC-SIGN. CD209a is a type II transmembrane C-type lectin expressed on a subset of dendritic cells, including some CD4<sup>+</sup>, CD8<sup>-</sup> and plasmacytoid pre-dendritic cells. Studies indicate that CD209a expression can vary according to the activation state of the host. Moreover, CD209a is down-regulated in spleen-derived dendritic cell cultures supplemented with GM-CSF. CD209a is involved in mediating the innate immune response by binding microbial carbohydrates.

Cross-blocking studies suggest that MMD3 recognizes a different epitope from LWC06 and 5H10.

### Applications Reported

This MMD3 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This MMD3 antibody has been tested by flow cytometric analysis of transfected cells. This can be used at less than or equal to 0.5  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. 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.

**eFluor<sup>®</sup> 660 is a replacement for Alexa Fluor<sup>®</sup> 647. eFluor<sup>®</sup> 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.**

### References

Cheong C, Matos I, Choi JH, Schauer JD, Dandamudi DB, Shrestha E, Makeyeva JA, Li X, Li P, Steinman RM, Park CG. New monoclonal anti-mouse DC-SIGN antibodies reactive with acetone-fixed cells. J Immunol Methods. 2010 Aug 31;360(1-2):66-75. (MMD3, FC, IHC, PubMed)

Engering A, Geijtenbeek TB, van Vliet SJ, Wijers M, van Liempt E, Demareux N, Lanzavecchia A, Fransen J, Figdor CG, Piguet V, van Kooyk Y. The dendritic cell-specific adhesion receptor DC-SIGN internalizes antigen for presentation to T cells. J Immunol. 2002 Mar 1;168(5):2118-26.

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Geijtenbeek TB, Engering A, Van Kooyk Y. DC-SIGN, a C-type lectin on dendritic cells that unveils many aspects of dendritic cell biology. *J Leukoc Biol.* 2002 Jun;71(6):921-31.

Park CG, Takahara K, Umemoto E, Yashima Y, Matsubara K, Matsuda Y, Clausen BE, Inaba K, Steinman RM. Five mouse homologues of the human dendritic cell C-type lectin, DC-SIGN. *Int Immunol.* 2001 Oct;13(10):1283-90.

Caminschi I, Lucas KM, O'Keeffe MA, Hochrein H, Laâbi Y, Brodnicki TC, Lew AM, Shortman K, Wright MD. Molecular cloning of a C-type lectin superfamily protein differentially expressed by CD8alpha(-) splenic dendritic cells. *Mol Immunol.* 2001 Sep;38(5):365-73.