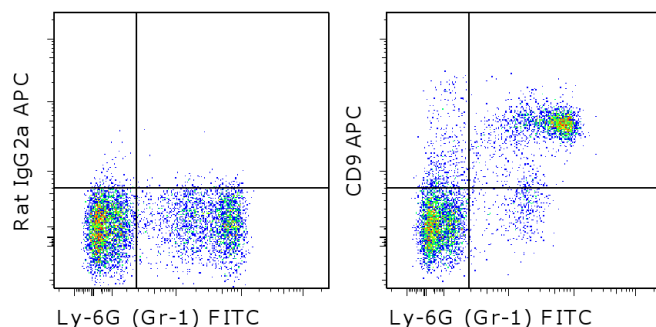


## Anti-Mouse CD9 APC

**Catalog Number:** 17-0091

**Also known as:** MIC3, Tspan29

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



Staining of C57Bl/6 splenocytes with Anti-Mouse Ly-6G (Gr-1) FITC (cat. 11-5931) and 0.5 ug of Rat IgG2a kappa Isotype Control APC (cat. 17-4321) (left) or 0.5 ug of Anti-Mouse CD9 APC (right). Cells in the large scatter population were used for analysis.

### Product Information



**Contents:** Anti-Mouse CD9 APC

**Catalog Number:** 17-0091

**Clone:** eBioKMC8 (KMC8)

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Rat IgG2a, 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

### Description

The eBioKMC8 monoclonal antibody reacts with mouse CD9, a 24 kDa member of the transmembrane 4 superfamily. This family is characterized by the presence of four hydrophobic domains spanning the cell membrane and short N- and C-terminal cytoplasmic domains. CD9 is expressed by several cell types including monocytes, macrophages, platelets, early B cells, activated B and T cells, dendritic cells, eosinophils, basophils, endothelial cells, myoblasts and neuroblasts. On T cells, CD9 functions as a co-stimulatory molecule on naïve T cells. Furthermore, CD9 is expressed in oocytes, and CD9-deficiency results in sterility caused by defective gamete fusion. In mouse macrophages, CD9 functionally associates with FcγRs to modify signals for phagocytosis and inflammatory responses. In mouse B cells, it was discovered that CD9 is a marker for marginal zone B cells, B1 cells, and plasma cells. In dendritic cells, recently it was demonstrated that CD9 facilitates the association of heterologous MHC II molecules. The level of CD9 expression is subject to donor variability.

### Applications Reported

This eBioKMC8 (KMC8) antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This eBioKMC8 (KMC8) antibody has been tested by flow cytometric analysis of mouse bone marrow cells. 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Miyake K, Medina KL, Hayashi S, Ono S, Hamaoka T, Kincade PW. Related Articles, Links Monoclonal antibodies to Pgp-1/CD44 block lympho-hemopoiesis in long-term bone marrow cultures. J Exp Med. 1990 Feb 1;171(2):477-88. (KMC8, mAb development, PubMed)

Oritani K, Wu X, Medina K, Hudson J, Miyake K, Gimble JM, Burstein SA, Kincade PW. Antibody ligation of CD9 modifies production of myeloid cells in long-term cultures. Blood. 1996 Mar 15;87(6):2252-61.

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • [www.ebioscience.com](http://www.ebioscience.com) • [info@ebioscience.com](mailto:info@ebioscience.com)

---

## Anti-Mouse CD9 APC

**Catalog Number:** 17-0091

**Also known as:** MIC3, Tspan29

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

---

Tachibana I, Hemler ME. Role of transmembrane 4 superfamily (TM4SF) proteins CD9 and CD81 in muscle cell fusion and myotube maintenance. J Cell Biol. 1999 Aug 23;146(4):893-904. (**KMC8**, WB, IP, FA, PubMed)

### Related Products

11-5931 Anti-Mouse Ly-6G (Gr-1) FITC (RB6-8C5)

17-4321 Rat IgG2a K Isotype Control APC (eBR2a)