



CD9 Monoclonal Antibody (eBioKMC8 (KMC8)), Super Bright[™] 600, eBioscience[™]

100 μg
Mouse
Rat / IgG2a, kappa
Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 600, eBioscience™
Monoclonal
Antibody
eBioKMC8 (KMC8)
Super Bright™ 600
414/601 nm
Liquid
0.2 mg/mL
Affinity chromatography
PBS, pH 7.2, with BSA
0.09% sodium azide
4° C, store in dark, DO NOT FREEZE!
AB_2762654

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	7 Publications
ELISA (ELISA)	-	1 Publication

Product Specific Information

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 naive 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 FcgammaRs 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 KMC8 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This KMC8 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This may be used at less than or equal to 1 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ 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.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

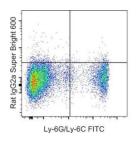
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

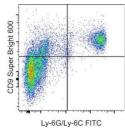
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD9 Monoclonal Antibody (eBioKMC8 (KMC8)), Super Bright™ 600, eBioscience™





CD9 Antibody (63-0091-82) in Flow

BALB/c mouse bone marrow cells were stained with Ly-6G/Ly-6C Monoclonal Antibody, FITC (Product # 11-5931-82) and 1 µg of Rat IgG2a kappa Isotype Control, Super Bright 600 (Product # 63-4321-82) (left) or 1 µg of CD9 Monoclonal Antibody, Super Bright 600 (right). Total viable cells were used for analysis.

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□ 10 References

Immunohistochemistry (1)

Disease models & mechanisms

Modelling glioblastoma tumour-host cell interactions using adult brain organotypic slice co-culture.

Year 2018

Year 2021

"Published figure using CD9 monoclonal antibody (Product # 63-0091-82) in Immunohistochemistry" Authors: Marques-Torrejon MA,Gangoso E,Pollard SM

Immunocytochemistry (1)

Nature communications

LRIG1 is a gatekeeper to exit from quiescence in adult neural stem cells.

"Published figure using CD9 monoclonal antibody (Product # 63-0091-82) in Flow Cytometry"

Authors: Marqués-Torrejón MÁ,Williams CAC,Southgate B,Alfazema N,Clements MP,Garcia-Diaz C,Blin C,Arranz-Emparan N,Fraser J,Gammoh N,Parrinello S,Pollard SM

Flow Cytometry (7)

Cell discovery

A bioenergetic shift is required for spermatogonial differentiation.

Year 2023

"Published figure using CD9 monoclonal antibody (Product # 63-0091-82) in Flow Cytometry"

Authors: Chen W,Zhang Z,Chang C,Yang Z,Wang P,Fu H,Wei X,Chen E,Tan S,Huang W,Sun L,Ni T,Yang Y,Wang Y

Molecular therapy. Nucleic acids

Extracellular vesicles mediated exocytosis of antisense peptide nucleic acids.

Year 2021

"Published figure using CD9 monoclonal antibody (Product # 63-0091-82) in Flow Cytometry"

Authors: Malik S Saltzman WM Bahal R

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More applications with references on thermofisher.com

ELISA (1)

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