

Product datasheet for **TA320302**

Cd9 Rat Monoclonal Antibody [Clone ID: eBioKMC8 (KMC8)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	eBioKMC8 (KMC8)
Applications:	FC
Recommended Dilution:	Flow, WB
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	CD9 antigen
Database Link:	NP_031683 Entrez Gene 12527 Mouse P40240

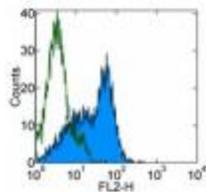
Background: The eBioKMC8 monoclonal antibody reacts with mouse CD9, a 24 kDa member of the transmembrane 4 superfamily. This family is characterized by the presence of four hydrophobic domains spanning the cell membrane and short N- and C-terminal cytoplasmic domains. CD9 is expressed by several cell 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.



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Synonyms: 5H9; BA2; BTCC-1; DRAP-27; GIG2; MIC3; MRP-1; OTTHUMP00000041576; P24; Tetraspanin-29; Tspan-29; TSPAN29

Product images:



Staining of C57Bl/6 bone marrow cells with 0.5 ug of Rat IgG2a Isotype Control Purified (open histogram) or 0.5 ug of Anti-Mouse CD9 Purified (filled histogram) followed by Anti-Rat IgG PE. Cells in the large scatter population were used for analysis.