Technical Data Sheet

PE Rat Anti-Mouse CD9

Product Information

Material Number: 564234
Alternate Name: C9; Tetraspanin-29; Tsapn29
Size: 50 µg
Concentration: 0.2 mg/ml
Clone: KMC8 (also known as KMC 8)
Immunogen: (C57BL/6 x DBA/2)F1 mouse bone marrow-derived stromal cell line BMS2
Isotype: Rat (LOU) IgG2a, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The KMC8 monoclonal antibody specifically binds to CD9 which is also known as Tetraspanin-29 (Tspan29). CD9 is a 24-kDa member of the transmembrane 4 superfamily, also called the tetraspanin family. In the mouse, CD9 is present on bone marrow myeloid cells, stromal cells, and megakaryocyte-committed progenitors; subsets of peripheral T and B lymphocytes; and neutrophils, platelets, dendritic cells, and bone marrow-derived macrophages. CD9 has been found to be associated with integrins and other cell-surface receptors. It appears to play roles in signal transduction and in regulating cellular adhesive properties. CD9 can also reportedly participate in T-cell costimulation and induction of apoptosis. The KMC8 antibody reportedly blocks certain CD9 functions and activates macrophages.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

| Flow cytometry | Routinely Tested |

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## Suggested Companion Products

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<td>Stain Buffer (FBS)</td>
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<td>Stain Buffer (BSA)</td>
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<td>PE Rat IgG2a, κ Isotype Control</td>
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<td>R35-95</td>
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<td>FITC Rat Anti-Mouse CD11b</td>
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### Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

### References


