Technical Data Sheet

PE Rat anti-Mouse CD146

Product Information

Material Number: 562196
Alternate Name: S-endo 1; S-endo; Muc18; Mcam; Gicerin
Size: 0.1 mg
Concentration: 0.2 mg/ml
Clone: ME-9F1
Immunogen: CBA/J Mouse lymph node Cell Line
Isotype: Rat IgG2a, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The ME-9F1 monoclonal antibody specifically binds to mouse CD146. The CD146 adhesion molecule is a type 1 transmembrane glycoprotein and member of the immunoglobulin superfamily. CD146 is expressed by blood vessel endothelial cells and may play roles in forming intercellular junctions between endothelial cells and influencing the transendothelial migration of other cell types. CD146 is also expressed by some melanoma cell lines, NK cells and neutrophils. CD146 is not detectable on mouse monocytes, dendritic cells, T cells, NKT cells, B cells and smooth muscle cells. Increased expression of CD146 is reportedly associated with NK cell maturation and may be used to characterize different functional NK cell subsets. Activated CD146-positive mouse NK cells reportedly are less cytotoxic and secrete less IFN-γ than their CD146-negative counterparts.

Preparation and Storage

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

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application
Flow cytometry Routinely Tested

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Suggested Companion Products

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<td>PE Rat IgG2a, κ Isotype Control</td>
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<td>APC Rat Anti-Mouse CD49b</td>
<td>50 µg</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. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at wwwbdbiosciences.com/colors.
4. 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.

References