

## Elab Fluor® Violet 450 Anti-Mouse CD146 Antibody[ME-9F1]

Catalog Number: E-AB-F1395Q

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

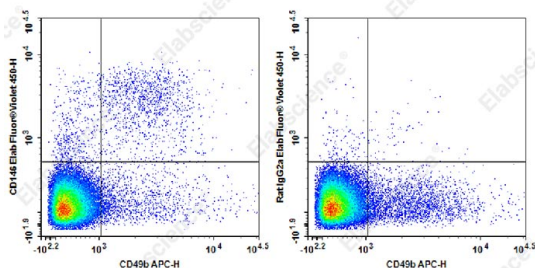
|                         |  |
|-------------------------|--|
| Reactivity              | Mouse  |
| Host                    | Rat  |
| Isotype                 | Rat IgG2a, $\kappa$  |
| Clone No.               | ME-9F1   |
| Isotype Control         | Elab Fluor® Violet 450 Rat IgG2a, $\kappa$ Isotype Control[2A3] [Product E-AB-F09832Q]   |
| Conjugation             | Elab Fluor® Violet 450   |
| Conjugation Information | Elab Fluor® Violet 450 is designed to be excited by the violet laser (405 nm) and detected using an optical filter centered near 450 nm (e.g., a 450/45 nm bandpass filter). |
| Storage Buffer          | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant   |

### Applications

### Recommended usage

|     |  |
|-----|--|
| FCM | Each lot of this antibody is quality control tested by flow cytometric analysis. <b>The amount of the reagent is suggested to be used 5 <math>\mu</math>L of antibody per test (million cells in 100 <math>\mu</math>L staining volume or per 100 <math>\mu</math>L of whole blood).</b> Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. |
|-----|--|

### Data



Staining of C57BL/6 murine splenocytes cells with APC Anti-

Mouse CD49b Antibody and Elab Fluor® Violet 450 Anti-Mouse NKG2A/C/E Antibody[ME-9F1] (left) or Elab Fluor® Violet 450 Rat IgG2a,  $\kappa$  Isotype Control (right). Total viable cells were used for analysis.

### Preparation & Storage

|          |   |
|----------|---|
| Storage  | Keep as concentrated solution.<br>This product can be stored at 2-8°C for 12 months. Please protected from prolonged exposure to light and do not freeze. |
| Shipping | Ice bag   |

### Antigen Information

|                 |   |
|-----------------|---|
| Alternate Names | S-Endo 1 antigen;MUC18;MCAM;MeI-CAM;A32 antigen |
| Uniprot ID      | P10810  |

### For Research Use Only

Toll-free: 1-888-852-8623  
Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086  
Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017

Rev. V1.6

**Gene ID**

84004

**Background**

CD146, also known as melanoma cell adhesion molecule (MCAM or Mel-CAM), MUC18, S-Endo1, and A32 antigen, is an integral membrane glycoprotein that belongs to the Ig superfamily. CD146 is strongly expressed by murine vascular endothelial cells. It is expressed on about 30% of neutrophils and 60% of NK cells. Unlike in humans, CD146 is undetectable on monocytes, dendritic cells, T cells, NKT cells, B cells, or smooth muscle cells in mouse. It has been reported that an increase in CD146 expression is associated with NK cell maturation. Combined with using CD27 and CD11b staining, CD146 may be an alternative marker to detect final stages of NK cell maturation and define NK cell subsets. CD146+ NK cells were found to be less cytotoxic and to produce less IFN $\gamma$  than CD146- NK cells upon stimulation with target cells or activating antibodies. The role of CD146 on NK cell migration has yet to be investigated. The identification of CD146 ligand(s) will be crucial to address this issue.