

## Elab Fluor® 647 Anti-Mouse CD31 Antibody[390]

Catalog Number: GFH1180M

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

### Description

|                         |                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                  |
| Host                    | Rat                                                                                                                                                                    |
| Isotype                 | Rat IgG2a, κ                                                                                                                                                           |
| Clone No.               | 390                                                                                                                                                                    |
| Isotype Control         | Elab Fluor® 647 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09832M]                                                                                               |
| Conjugation             | Elab Fluor® 647                                                                                                                                                        |
| Conjugation Information | Elab Fluor® 647 is designed to be excited by the Red laser (627-640 nm) and detected using an optical filter centered near 670 nm (e.g., a 660/20 nm bandpass filter). |
| Storage Buffer          | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide.                                                                                                    |

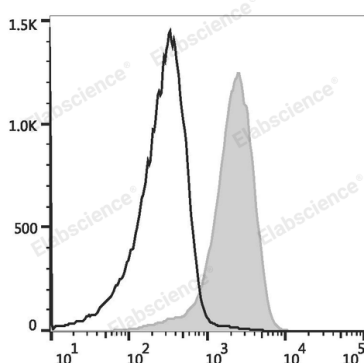
### Applications

### Recommended usage

#### FCM

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

### Data



C57BL/6 murine splenocytes are stained with Elab Fluor® 647 Anti-Mouse CD31 Antibody (filled gray histogram) or

Elab Fluor® 647 Rat IgG2a, κ Isotype Control (empty black histogram).

### 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 | Pecam-1;CD31;PECAM-1;Pecam |
| Uniprot ID      | Q08481                     |
| Gene ID         | 18613                      |

### For Research Use Only

## Background

CD31 is a 130-140 kD glycoprotein, also known as platelet endothelial cell adhesion molecule (PECAM-1) and EndoCAM. It is a member of the Ig superfamily, expressed on endothelial cells, platelets, granulocytes, monocytes/macrophages, dendritic cells, and T and B cell subsets, and is critical for cell-cell interactions. The primary ligands for CD31 have been reported to be CD38 and the vitronectin receptor ( $\alpha$ v $\beta$ 3 integrin, CD51/CD61). Other reported functions of CD31 are neutrophil emigration to sites of inflammation and angiogenesis.