

## Elab Fluor® 647 Anti-Rat CD38 Antibody[14.27]

Catalog Number: AN00959M

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

### Description

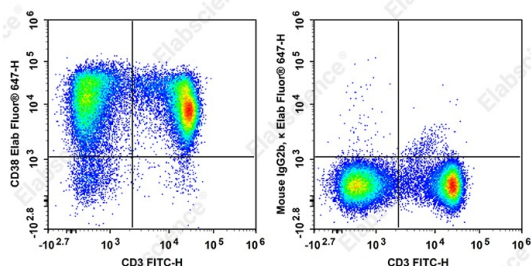
<b>Reactivity</b>	Rat
<b>Host</b>	Mouse
<b>Isotype</b>	Mouse IgG2b, κ
<b>Clone No.</b>	14.27
<b>Isotype Control</b>	Elab Fluor® 647 Mouse IgG2b, κ Isotype Control[MPC-11] [Product E-AB-F09812M]
<b>Conjugation</b>	Elab Fluor® 647
<b>Conjugation Information</b>	Elab Fluor® 647 is designed to be excited 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).
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

### Applications

### Recommended usage

<b>FCM</b>	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 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood).</b> Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.
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### Data



Staining of Rat splenocytes cells with FITC Anti-Rat CD3

Antibody and Elab Fluor® 647 Anti-Rat CD38

Anybody[14.27] (left) or Elab Fluor® 647 Mouse IgG2b, κ Isotype Control (right). Total viable cells were used for analysis.

### Preparation & Storage

<b>Storage</b>	Keep as concentrated solution. This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze.
<b>Shipping</b>	Ice bag

### Antigen Information

<b>Alternate Names</b>	T10;ADP-ribosyl cyclase
<b>Uniprot ID</b>	Q64244
<b>Gene ID</b>	25668

### For Research Use Only

## Background

CD38 is a 45 kD type II transmembrane ADP-ribosyl cyclase expressed on early hematopoietic precursors and leukocytes, hepatic stellate cells, astrocytes and epithelial cells. CD38 expression can be upregulated upon cell activation. CD38 catalyzes the production of cyclic ADP ribose, which is important in Ca<sup>2+</sup> release. CD38 induces production of proinflammatory cytokines and proliferation. The ligand for CD38 is CD31. Impairment in CD38 expression is associated with immunological and behavioral disorders.