

## PE/Cyanine7 Anti-Mouse CD38 Antibody[90]

Catalog Number: AN00858H

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

### Description

Reactivity	Mouse
Host	Rat
Isotype	Rat IgG2a, $\kappa$
Clone No.	90
Isotype Control	PE/Cyanine7 Rat IgG2a, $\kappa$ Isotype Control[2A3] [Product E-AB-F09832H]
Conjugation	PE/Cyanine 7
Conjugation Information	PE/Cyanine 7 is designed to be excited by the Blue (488 nm), Green (532 nm) and yellow-green (561 nm) lasers and detected using an optical filter centered near 775 nm (e.g., a 780/60 nm bandpass filter).
Storage Buffer	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

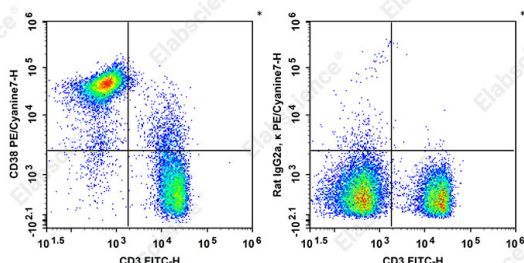
### Applications

FCM

### Recommended usage

Each lot of this antibody is quality control tested by flow cytometric analysis. **The amount of the reagent is suggested to be used 5  $\mu$ L of antibody per test (million cells in 100  $\mu$ L staining volume or per 100  $\mu$ L of whole blood).** 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 FITC Anti-Mouse CD3 Antibody and PE/Cyanine7 Anti-Mouse CD38 Antibody[90] (left) or PE/Cyanine7 Rat IgG2a,  $\kappa$  Isotype Control (right). Total viable cells were used for analysis.

### Preparation & Storage

Storage	Keep as concentrated solution. 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	T10;AN00858
Uniprot ID	P56528
Gene ID	12494

### For Research Use Only

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Rev. V1.2

## Background

CD38 is a 45 kD type II transmembrane glycoprotein also known as T10. It is an ADP-ribosyl hydrolase expressed at variable levels on hematopoietic cells and in some non-hematopoietic tissues (such as brain, muscle, and kidney). In humans, it is expressed at high levels on plasma cells and activated T and B cells, natural killer (NK) lymphocytes, myeloblasts, and erythroblasts. By functioning as both a cyclase and a hydrolase, CD38 mediates lymphocyte activation, adhesion, and the metabolism of cADPR and NAADP. CD31 is the ligand of CD38.