

## PE/Cyanine5 Anti-Rat CD44H Antibody[OX-49]

**Catalog Number:** GFH1225G

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

### Description

|                                |                                                                                                                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>              | Rat                                                                                                                                                                                                        |
| <b>Host</b>                    | Mouse                                                                                                                                                                                                      |
| <b>Isotype</b>                 | Mouse IgG2a, κ                                                                                                                                                                                             |
| <b>Clone No.</b>               | OX-49                                                                                                                                                                                                      |
| <b>Isotype Control</b>         | PE/Cyanine5 Mouse IgG2a, κ Isotype Control[C1.18.4] [Product E-AB-F09802G]                                                                                                                                 |
| <b>Conjugation</b>             | PE/Cyanine 5                                                                                                                                                                                               |
| <b>Conjugation Information</b> | PE/Cyanine5 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 670 nm (e.g., a 690/50 nm bandpass filter). |
| <b>Storage Buffer</b>          | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide.                                                                                                                                        |

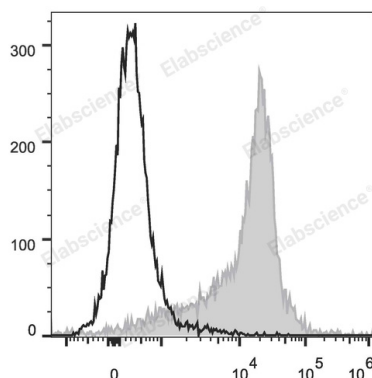
### Applications

### 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



Rat splenocytes are stained with PE/Cyanine5 Anti-Rat CD44H Antibody (filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

### Preparation & Storage

|                 |                                                                                                                                                           |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>  | 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. |
| <b>Shipping</b> | Ice bag                                                                                                                                                   |

### Antigen Information

|                        |                        |
|------------------------|------------------------|
| <b>Alternate Names</b> | CD44sH-CAM;CD44H;Pgp-1 |
| <b>Uniprot ID</b>      | P26051                 |
| <b>Gene ID</b>         | 12505                  |

### For Research Use Only

## Background

CD44 is an 80-95 kD cell surface glycoprotein. It is expressed on all leukocytes, endothelial cells, hepatocytes, and mesenchymal cells. It is up-regulated when T cells and B cells are activated. It was reported that CD44 is a valuable marker for memory T cells. CD44 is an adhesion molecule involved in leukocyte adhesion and homing to lymphoid organs. The OX-49 antibody reacts with CD44H (known as CD44s) expressed on most leukocytes, except for a subset of B lymphocytes. The epitope recognized by OX-49 antibody has been mapped to a region on both the standard, CD44s, and the splice variant, CD44v, isoforms of CD44. However it was reported that OX-49 antibody cannot detect the CD44V isoform, possibly due to conformational changes in the epitope.