

## Mouse CD90 Monoclonal Antibody | anti-CD90 antibody

MOUSE ANTI RAT CD90:RPE

|                              |                      |                                                         |
|------------------------------|----------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA12048</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay</b> |
|------------------------------|----------------------|---------------------------------------------------------|

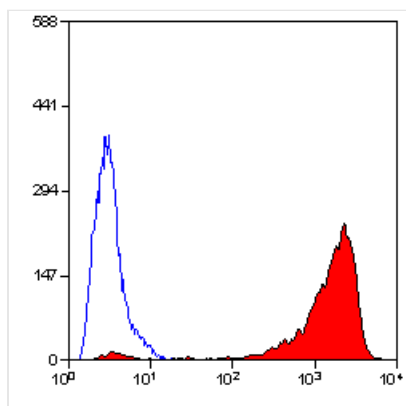
### PRODUCT SYNONYMS

CD90; Monoclonal Antibody; MOUSE ANTI RAT CD90:RPE; anti-CD90 antibody

### PRODUCT SPECIFICATIONS

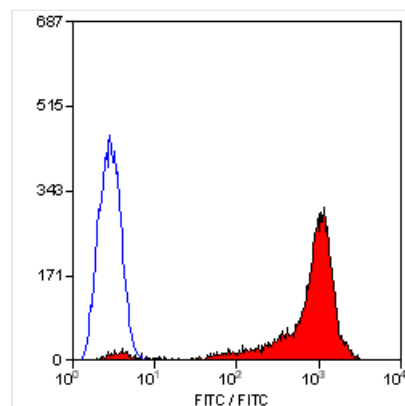
|                                                |                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                                                                                         |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                                    |
| Isotype                                        | IgG1                                                                                                                                                                                                                                                                                                                                                          |
| Clone Number                                   | OX-7                                                                                                                                                                                                                                                                                                                                                          |
| Form/Format                                    | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised                                                                                                                                                                                                                                                                                               |
| Sequence Length                                | 161                                                                                                                                                                                                                                                                                                                                                           |
| Applicable Applications for anti-CD90 antibody | FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                     |
| Application Notes                              | Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul.<br><b>Flow Cytometry:</b> Maximum Dilution: Neat                                                                                                                                                                                                                      |
| Reconstitution                                 | Reconstitute with 1.0 ml distilled water<br>Perservative Stabilisers                                                                                                                                                                                                                                                                                          |
| Buffer Solution                                | Phosphate buffered saline                                                                                                                                                                                                                                                                                                                                     |
| Target Species                                 | Rat                                                                                                                                                                                                                                                                                                                                                           |
| Preparation and Storage                        | Prior to reconstitution store at 4 degree C. Following reconstitution store at 4 degree C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.<br>Shelf Life: 6 months following reconstitution |

### IMAGES



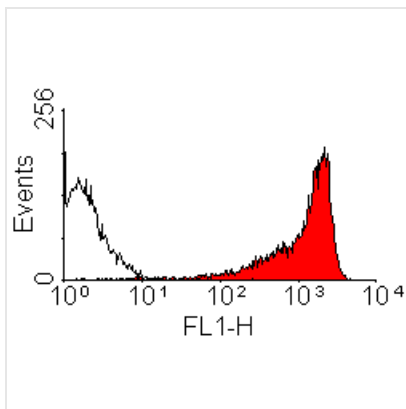
#### Application Data

Staining of rat thymus cells with Mouse anti Rat CD90 (THY1.1):Alexa Fluor 488



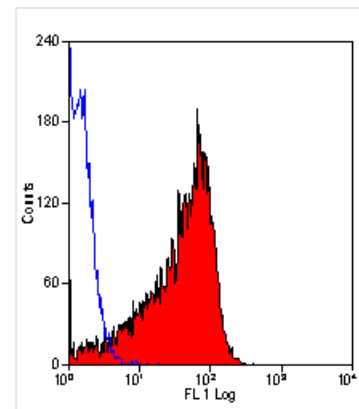
#### Application Data

Staining of rat thymus cells with Mouse anti Rat CD90 (THY1.1):FITC



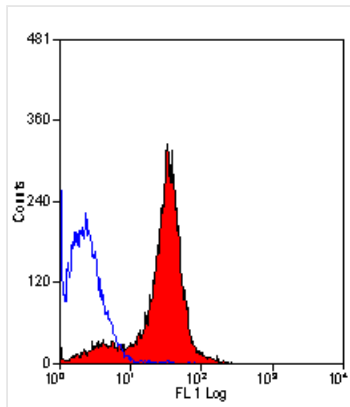
#### Application Data

Staining of rat thymocytes with Mouse anti Rat CD90 (THY1.1): FITC



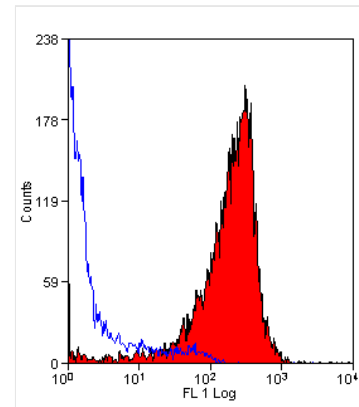
#### Application Data

Staining of rat thymus with Mouse anti Rat CD90 (THY 1.1): Low Endotoxin



#### Application Data

Staining of rat thymocytes with Mouse anti Rat CD90



#### Application Data

Staining of rat thymus with Mouse anti Rat CD90 (THY 1.1)

## ADDITIONAL INFORMATION

### Related Product Information for anti-CD90 antibody

Mouse anti Rat CD90 antibody, clone OX-7 recognizes rat and CD90, also known as Thy1.1, a GPI-anchored membrane protein containing a single V type Ig-like domain CD90 is expressed on a variety of cell types including thymocytes, neuronal cells, stem cells, immature B cells and connective tissues, CD90 is also expressed in T cells in mice. Since Thy1.1 is a monomorphic determinant in rat but polymorphic in mice, clone MRC OX-7 reacts with Thy1.1 mice e.g. AKR and FVB mice, but not Thy1.2 mice such as CBA and BALB/c. The affinity of the Fab' of MRC OX-7 for rat Thy1 is  $3 \times 10^9 \text{m}^{-1}$  and for mouse Thy1.1 is  $3 \times 10^8 \text{m}^{-1}(1)$ . Mouse anti rat CD90, clone MRC OX-7 has been demonstrated to promote neurite outgrowths on peripherin-stained sympathetic rat neurons, using fluorescence microscopy (Jeng et al. 1998). Clone OX-7 has also been reported to induce glomerular nephritis in Wistar rats (Tamura et al. 1996). This product is routinely tested in flow cytometry on rat thymocytes.

## NCBI AND UNIPROT INFORMATION

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| NCBI GI #                        | <a href="#">6981654</a>                   |
| NCBI GeneID                      | <a href="#">24832</a>                     |
| NCBI Accession #                 | <a href="#">NP_036805.1</a>               |
| NCBI GenBank Nucleotide #        | <a href="#">NM_012673.2</a>               |
| UniProt Accession #              | <a href="#">P01830</a>                    |
| Molecular Weight                 | 18,172 Da                                 |
| NCBI Official Full Name          | thy-1 membrane glycoprotein preproprotein |
| NCBI Official Synonym Full Names | Thy-1 cell surface antigen                |
| NCBI Official Symbol             | Thy1                                      |

|                               |                                                                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Official Synonym Symbols | CD7                                                                                                                                            |
| NCBI Protein Information      | thy-1 membrane glycoprotein; CD90; Thy-1 protein; Thymus cell surface antigen; thy-1 antigen; thy-1 glycoprotein; thymus cell antigen 1, theta |
| UniProt Protein Name          | Thy-1 membrane glycoprotein                                                                                                                    |
| UniProt Gene Name             | <b>Thy1</b>                                                                                                                                    |
| UniProt Synonym Gene Names    | Thy-1                                                                                                                                          |
| UniProt Entry Name            | THY1_RAT                                                                                                                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd90-antibody-clone-ox-7-flow-cytometry-elisa/12048>