

## Mouse CD45 Monoclonal Antibody | anti-CD45 antibody

MOUSE ANTI RAT CD45:RPE

|                              |                      |                                                         |
|------------------------------|----------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA49505</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay</b> |
|------------------------------|----------------------|---------------------------------------------------------|

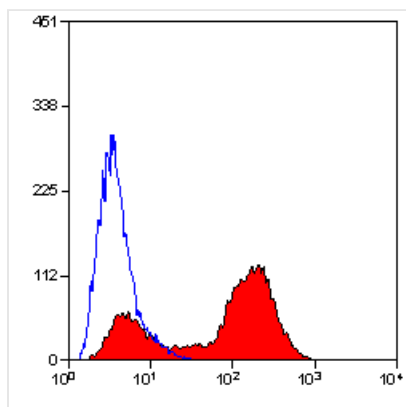
### PRODUCT SYNONYMS

CD45; Monoclonal Antibody; MOUSE ANTI RAT CD45:RPE; anti-CD45 antibody

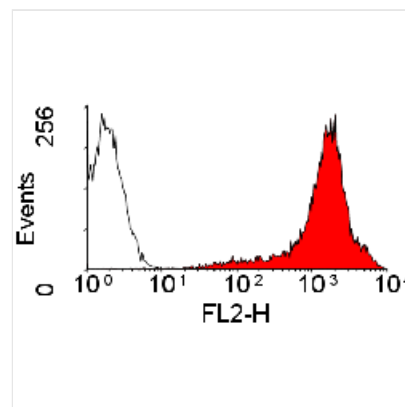
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                                                                                              |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                        | IgG1                                                                                                                                                                                                                                                                                                                                                               |
| Clone Number                                   | OX-1                                                                                                                                                                                                                                                                                                                                                               |
| Form/Format                                    | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised                                                                                                                                                                                                                                                                                                    |
| Sequence Length                                | 1,183                                                                                                                                                                                                                                                                                                                                                              |
| Applicable Applications for anti-CD45 antibody | FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                          |
| Reconstitution                                 | Reconstitute with 1 ml distilled water<br>Perservative Stabilisers                                                                                                                                                                                                                                                                                                 |
| Immunogen                                      | Rat thymocyte membrane glycoproteins<br>Fusion Partners                                                                                                                                                                                                                                                                                                            |
| 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: 12 months from date of reconstitution. |

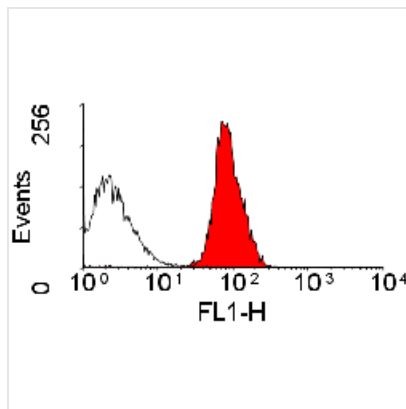
### IMAGES


**Application Data**

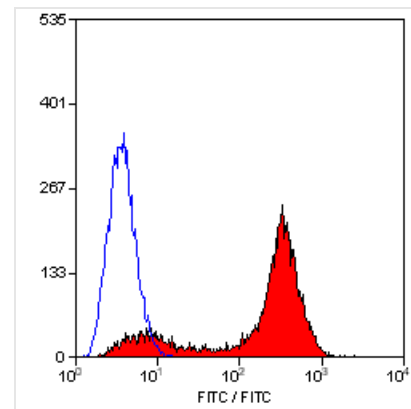
Staining of rat spleen cells with Mouse anti Rat CD45:Alexa Fluor 488


**Application Data**

Staining of rat spleen cells with Mouse anti Rat CD45: RPE



**Application Data**  
Staining of rat peripheral blood lymphocytes with Mouse anti Rat CD45



**Application Data**  
Staining of rat spleen cells with Mouse anti Rat CD45:FITC

## ADDITIONAL INFORMATION

### Related Product Information for anti-CD45 antibody

Mouse anti Rat CD45 antibody, clone OX-1 recognizes CD45, also known as the leucocyte common antigen (LCA). The leucocyte common antigen consists of a family of heavily glycosylated membrane glycoproteins of molecular weight 180 - 240kDa. Antibodies recognising a common epitope on all of these isoforms are termed CD45, whilst those recognising only individual isoforms are termed CD45RA, CD45RO etc. OX-1 reacts with all forms of CD45 expressed by all haematopoietic cells, except erythrocytes. CD45 isoforms play complex roles in T-cell and B-cell antigen receptor signal transduction. This product is routinely tested in flow cytometry on rat splenocytes

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 158138490                                                                                                                                                                                                     |
| NCBI GeneID                      | 24699                                                                                                                                                                                                         |
| NCBI Accession #                 | NP_001103357.1                                                                                                                                                                                                |
| NCBI GenBank Nucleotide #        | NM_001109887.1                                                                                                                                                                                                |
| UniProt Accession #              | P04157                                                                                                                                                                                                        |
| Molecular Weight                 | 134,182 Da                                                                                                                                                                                                    |
| NCBI Official Full Name          | receptor-type tyrosine-protein phosphatase C isoform 3                                                                                                                                                        |
| NCBI Official Synonym Full Names | protein tyrosine phosphatase, receptor type, C                                                                                                                                                                |
| NCBI Official Symbol             | Ptprc                                                                                                                                                                                                         |
| NCBI Official Synonym Symbols    | Lca; RT7; CD45; L-CA; T200                                                                                                                                                                                    |
| NCBI Protein Information         | receptor-type tyrosine-protein phosphatase C; Protein tyrosine phosphatase, receptor-type, c polypeptide; T200 glycoprotein; leucocyte common antigen; leukocyte common antigen A; leukocyte common antigen B |
| UniProt Protein Name             | Receptor-type tyrosine-protein phosphatase C                                                                                                                                                                  |
| UniProt Gene Name                | <b>Ptprc</b>                                                                                                                                                                                                  |
| UniProt Synonym Gene Names       | L-CA                                                                                                                                                                                                          |
| UniProt Entry Name               | PTPRC_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/cd45-antibody-clone-ox-1-flow-cytometry-elisa/49505>