

## Product datasheet for **SM416R**

### CD45 (CD45R) Rat Monoclonal Antibody [Clone ID: YKIX753.22.2]

#### Product data:

|                        |   |
|------------------------|---|
| Product Type:          | Primary Antibodies  |
| Clone Name:            | YKIX753.22.2  |
| Applications:          | FC  |
| Recommended Dilution:  | Flow Cytometry.   |
| Reactivity:            | Canine  |
| Host:                  | Rat   |
| Isotype:               | IgG2b   |
| Clonality:             | Monoclonal  |
| Immunogen:             | Canine thymocytes. Spleen cells from immunised DA rat were fused with cells of the Y3/Ag1.2.3 rat myeloma cell line.  |
| Specificity:           | This antibody was clustered as a CD45R at the first canine Leucocyte Antigen workshop. It precipitates an antigen of 220kD from Con A Blasts and recognises a CD45R isoform. It is expressed on subsets of leucocytes (neutrophils are weak) in canine blood of all our bred mongrels and beagles tested. |
| Formulation:           | PBS containing 0.09% Sodium Azide and 1% Bovine Serum Albumin<br>Label: PE<br>State: Lyophilized purified IgG<br>Label: R. Phycoerythrin (RPE)  |
| Reconstitution Method: | Restore with 1ml distilled water  |
| Purification:          | Affinity chromatography on Protein G  |
| Conjugation:           | PE  |
| Storage:               | Prior to and following reconstitution store the antibody at 2-8°C.<br>DO NOT FREEZE!<br>This product is photosensitive and should be protected from light.  |
| Stability:             | Shelf life: one year from despatch.   |

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**Background:**

CD45 is a family of single chain transmembraneous glycoproteins consisting of at least four isoforms (220, 205, 190, 180 kDa) which share a common large intracellular domain. Their extracellular domains are heavily glycosylated. The different isoforms are produced by alternative messenger RNA splicing of three exons of a single gene on chromosome 1. CD45 is expressed on cells of the human hematopoietic lineage (including hematopoietic stem cells) with the exception of mature red cells. It is not detected on differentiated cells of other tissues. It is likely that CD45 plays an important role in signal transduction, inhibition or upregulation of various immunological functions. Antibodies recognising a common epitope on all of the isoforms are termed CD45 whilst those recognising only individual isoforms are termed CD45RA or CD45RO etc.

**Synonyms:**

Leukocyte common antigen, L-CA, PTPRC, T200, CD45R