



# Anti-CD4 monoclonal antibody, clone YKIX302.9 [R-PE] (CABT-45073RD)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Rat anti Dog CD4 antibody (YKIX302.9) is a monoclonal antibody specific for the canine CD4 cell surface antigen. Clone YKIX302.9 was clustered at the first Canine Leukocyte Antigen Workshop (CLAW) along with clone CA13.1E4. Rat anti Dog CD4 (YKIX302.9) has been demonstrated to partially deplete circulating T lymphocytes when administered in vivo, but alone was not sufficient to prolong allograft survival in a canine transplant model. Uniquely amongst mammals, canine CD4 is expressed by neutrophils as well as by lymphocytes subsets. Rat anti Canine CD4 (YKIX302.9) forms part of a panel of anti canine monoclonal antibodies used extensively in the evaluation of leukemic status in dogs. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells or 100ul whole blood.

|                           |   |
|---------------------------|---|
| <b>Specificity</b>        | CD4   |
| <b>Immunogen</b>          | Canine Concanavilin A activated T-cell blasts.                  |
| <b>Isotype</b>            | IgG2a   |
| <b>Source/Host</b>        | Rat   |
| <b>Species Reactivity</b> | Dog   |
| <b>Clone</b>              | YKIX302.9   |
| <b>Conjugate</b>          | PE  |
| <b>Applications</b>       | FC  |
| <b>Format</b>             | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised |
| <b>Size</b>               | 100 µg  |
| <b>Preservative</b>       | 0.09% Sodium Azide  |

**Storage**

Prior to reconstitution store at +4°C. Following reconstitution store at +4°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.

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## GENE INFORMATION

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|---------------------|--|
| Gene Name           | <a href="#">CD4 CD4 molecule [ Canis lupus familiaris (dog) ]</a>  |
| Official Symbol     | CD4  |
| Synonyms            | CD4; T-cell surface glycoprotein CD4; CD4 antigen (p55); T-cell surface antigen T4/Leu-3;  |
| Entrez Gene ID      | <a href="#">403931</a>   |
| Protein Refseq      | <a href="#">NP_001003252</a>   |
| UniProt ID          | P33705   |
| Chromosome Location | chromosome: 27   |
| Pathway             | Antigen processing and presentation; Cell adhesion molecules (CAMs); Cytokines and Inflammatory Response; Hematopoietic cell lineage; Primary immunodeficiency; T cell receptor signaling pathway; |
| Function            | coreceptor activity;   |