

## Monoclonal Antibody to CD45 - Purified

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| <b>Alternate names:</b>  | CD45R, CD45RA, CD45RB, CD45RO, L-CA, Leukocyte common antigen, PTPRC, T200   |
| <b>Catalog No.:</b>      | SM415P   |
| <b>Quantity:</b>         | 0.25 mg  |
| <b>Concentration:</b>    | 1.0 mg/ml  |
| <b>Background:</b>       | CD45 is expressed on all leukocytes in canine peripheral blood and may be against CD45RB isoform.  |
| <b>Host / Isotype:</b>   | Rat / IgG2b  |
| <b>Clone:</b>            | YKIX716.13   |
| <b>Immunogen:</b>        | Canine thymocytes.<br>Spleen cells from immunised DA rats were fused with cells of the Y3/Ag1.2.3 rat myeloma cell line.   |
| <b>Format:</b>           | <b>State:</b> Liquid purified IgG fraction<br><b>Purification:</b> Affinity Chromatography on Protein G<br><b>Buffer System:</b> PBS<br><b>Preservatives:</b> 0.09% Sodium Azide   |
| <b>Applications:</b>     | <b>Flow Cytometry:</b> 1/50-1/100.<br><b>Immunoprecipitation:</b> immunoprecipitates an antigen of 180/200kD from Con-A blasts. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.   |
| <b>Specificity:</b>      | Clustered as CD45 in the First Canine Leukocyte Antigen Workshop clone YKIX 716.13. This antibody reacts with CD45 on all outbred mongrels and beagles tested.<br>Rat anti Dog CD45 antibody, clone YKIX716.13 recognizes canine CD45 also known as leukocyte common antigen lustered as Canine CD45 in the First Canine Leukocyte Antigen Workshop (CLAW).<br>Clone YKIX 716.13: immunoprecipitates an antigen of 180/200kD from Con-A blasts (Cobbold et al. 1994). CD45 is expressed on all leukocytes in canine peripheral blood. Rat anti Dog CD45 antibody, clone YKIX716.13 reacts with CD45 on all outbred mongrels and beagles tested and may be against CD45RB isoform.<br><b>Species:</b> Dog.<br>Other species not tested. |
| <b>Storage:</b>          | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.  |
| <b>General Readings:</b> | 1. Cobbold S, Metcalfe S. Monoclonal antibodies that define canine homologues of human CD antigens: summary of the First International Canine Leukocyte Antigen Workshop (CLAW). Tissue Antigens. 1994 Mar;43(3):137-54. PubMed PMID: 8091414.   |

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12. Aresu L, Aricò A, Comazzi S, Gelain ME, Riondato F, Mortarino M, et al. VEGF and MMP-9: biomarkers for canine lymphoma. *Vet Comp Oncol*. 2014 Mar;12(1):29-36. doi: 10.1111/j.1476-5829.2012.00328.x. Epub 2012 Apr 10. PubMed PMID: 22489798.
13. Salinas Tejedor, L. et al. (2015) Mesenchymal stem cells do not exert direct beneficial effects on CNS remyelination in the absence of the peripheral immune system. *Brain Behav Immun*. pii: S0889-1591(15)00233-0.

**Pictures:**

Staining of canine peripheral blood lymphocytes with rat anti-canine CD45 (SM415P), using F(ab')<sub>2</sub> rabbit anti rat IgG:FITC (SP1021F) as a secondary antibody.

