

Product datasheet for **SM409PS**

CD4 Rat Monoclonal Antibody [Clone ID: YKIX302.9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	YKIX302.9
Applications:	FC, IHC
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/50-1/100 diluted antibody to label 10 ⁶ cells or 100 µl whole blood. Immunohistochemistry on Frozen Sections.
Reactivity:	Canine
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Canine Concanavilin A activated T-cell blasts.
Specificity:	This antibody Clone YKIX302.9 recognises the Canine CD4 cell surface antigen. The antibody has been shown to block MHCII dependent T cell responses <i>in vivo</i> and <i>in vitro</i> . In the Dog CD4 is expressed by neutrophils as well as by lymphocytes subsets.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	P33705



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- Background:** CD4 is a single chain transmembrane glycoprotein (59 kDa) which belongs to the immunoglobulin superfamily. CD4 is present on a subset of T lymphocytes ("helper/inducer" T cells) and is also expressed at a lower level on monocytes, tissue macrophages and granulocytes. The antigen is involved in binding to MHC class II molecules. The intracellular domain of the antigen is associated with p56lck protein tyrosine kinase.
- Synonyms:** T-cell surface antigen T4/Leu-3