

## Anti-CD5 [YKIX 322.3] Standard Size Ab00599-202.1

This chimeric dog antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Dog IgG4 (IgG-D), Lambda

**Clone Number:** YKIX 322.3

**Alternative Name(s) of Target:** LEU-1; LEU1; Ly-1; Lymphocyte antigen T1/Leu-1; Lyt-1; T-cell surface glycoprotein CD5

**UniProt Accession Number of Target Protein:** F1PJU1

**Published Application(s):** IP, FC, IHC

**Published Species Reactivity:** Dog

**Immunogen:** YKIX 322.3 was prepared by immunizing rats with concanavalin A activated canine peripheral blood cells.

**Specificity:** YKIX 322.3 binds specifically to CD5. CD5 is a 55kDa T lymphocyte single chain transmembrane glycoprotein present on all mature T lymphocytes, on most thymocytes, and a subset of B lymphocytes (and on many T cell leukemias and lymphomas), but not on natural killer (NK) cells. CD5 is the major ligand of the B cell antigen CD72. Binding of CD5 on the T cell surface can augment alloantigen or mitogen-induced lymphocyte proliferation and induces increased cytosolic free calcium, IL2 secretion and IL2R expression. CD5 is also thought to negatively regulate signal transduction mediated by the T cell and B cell receptors.

**Application Notes:** YKIX 322.3 can be used for IHC-Fr and can act as a marker for T cells in addition to being used for IP.

**Antibody First Published in:** Cobbold et al. 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. [PMID:8091414](#)

**Note on publication:** Describes the binding specificity and characterisation (by IF staining and FACS, and IP) of antibodies against canine equivalents of human CD antigens.

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:**

PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.