Anti-CD5 [YKIX 322.3] Standard Size Ab00599-7.1

Isotype and Format: Rat IgG2a, 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 concanavilin 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^{o}C for up to 3 months. For longer storage, aliquot and store at -20^{o}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.