

## Anti-CD8A [YCATE55.9] Standard Size Ab00601-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG1 format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Rabbit IgG, Kappa

**Clone Number:** YCATE55.9

**Alternative Name(s) of Target:** LEU2; T-cell surface glycoprotein CD8 alpha chain; CD8a

**UniProt Accession Number of Target Protein:** P33706

**Published Application(s):** Blocking, cell-mediated lympholysis assays., fixed lymphocyte reaction (MLR), FC, IF, IHC-Fr

**Published Species Reactivity:** Dog

**Immunogen:** This antibody was prepared by immunizing rats with canine leucocytes, thymocytes or concanavalin A-activated lymphoblasts.

**Specificity:** This antibody is specific for the alpha chain of canine CD8, and reacts with a rat cell line transfected with cDNA for canine CD8 $\alpha$  (Gorman, 1994)

**Application Notes:** This antibody recognizes canine CD8 $\alpha$ , and has been used in in IF and IHC studies to establish that CD8 expression is confined to a minority population of T cells, as is the case for other species (Cobbold, 1994). In a canine transplant model, administration of this antibody, in combination with another anti-CD8 antibody (YCATE60.3.9) causes a 90 per cent depletion of CD8+ T cells from the peripheral blood, but does not result in prolonged allograft survival (Watson, 1993). However, the administration of this antibody in combination with an anti-CD4 antibody is associated with an immunosuppressive effect, and an extended median graft survival time. This antibody blocks MHC class I dependant T-cell responses in vitro and in vivo.

**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 identification and characterisation of a panel of monoclonal antibodies that define canine homologues 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.