

Anti-CD8A [YCATE55.9] Standard Size Ab00601-201.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric dog 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: Dog IgG2 (IgG-B), Fc Silent™, 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 CD8α (Gorman, 1994)

Application Notes: This antibody recognizes canine CD8α, 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.