

Anti-CD44 [YKIX 337.8.7] Standard Size Ab00596-7.4

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

Isotype and Format: Rat IgG2a, [Fc Silent™](#), Kappa

Clone Number: YKIX 337.8.7

Alternative Name(s) of Target: HCAM; CD44 antigen; extracellular receptor III; ECMR III; GP90 lymphocyte homing/adhesion receptor; HUTCH-I; HUTCH I; HUTCH 1; Hermes antigen; hyaluronate receptor; phagocytic glycoprotein 1; PGP-1; PGP 1; PGP I

UniProt Accession Number of Target Protein: Q28284

Published Application(s): FACS, IP, IF, IHC

Published Species Reactivity: Dog, Raccoon

Immunogen: YKIX 337.8.7 was prepared by immunizing rats canine thymocytes.

Specificity: YKIX 337.8.7 specifically binds to CD44. CD44 has high affinity for hyaluronic acid (HA) and can mediate cell-cell and cell-matrix interactions through its affinity for HA (and possibly also osteopontin, collagens, and matrix metalloproteinases (MMPs)). Adhesion with HA is important for cell migration, tumor growth and progression. CD44 also plays a role in lymphocyte activation, recirculation and homing, and in hematopoiesis. CD44 is a receptor for LGALS9 - this interaction enhances SMAD3 binding to the FOXP3 promoter, up-regulating FOXP3 expression and increasing induced regulatory T (iTreg) cell stability and suppressive function.

Application Notes: YKIX 337.8.7 antibody can be used for IHC-Fr; YKIX 337.8.7 to distinguish CD4+ T-cell subsets. This antibody can additionally be used for FACS and 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.