

Anti-CD38 [OKT10] Standard Size Ab01994-1.1

Isotype and Format: Mouse IgG1, Kappa

Clone Number: OKT10

Alternative Name(s) of Target: T10; ADPRC 1; cADPr hydrolase 1; ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1; 2'-phospho-ADP-ribosyl cyclase; 2'-phospho-ADP-ribosyl cyclase/2'-phospho-cyclic-ADP-ribose transferase; 2'-phospho-cyclic-ADP-ribose transferase; ADP-ribosyl cyclase 1; Cyclic ADP-ribose hydrolase 1; CD31 ligand.

UniProt Accession Number of Target Protein: P28907

Published Application(s): IP, FC

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing CAF1 mice with human thymocytes.

Specificity: This antibody recognizes and antigenic structure of 45,000 daltons type II transmembrane glycoprotein present on human precursor B cells and T cells, activated T cells, natural killer cells and some monocytes, myeloblasts and erythroblasts. It is also reported to strongly react with surface membrane of plasma cells.

Application Notes: This antibody reacts with various lymphoid cell populations and thymocytes. OKT10 along with other antibodies was used to describe the stages of intrathymic development of human thymocytes. It was reported that all the thymocytes initially bear the OKT10 marker. As the thymocytes are exported to peripheral T-cell compartment they lose the OKT10 marker, as OKT10 could not react with peripheral T-cells (PMID:6966400). OKT10 is reported to bind to leukaemias and normal marrow cells of the myeloid and B cell lineages (PMID:6169674). OKT10 was used to study final B cell maturation since the OKT10 antigen is expressed on mature lymphocytes and lymphoplasmacytic cells. OKT10 reactivity is inversely proportional to the presence of Ia-like antigen expression. Therefore, these two antigens can be employed as complementary opposite reactants for the study of mature B cell malignancies, such as CLL, multiple myeloma, and Waldenström malignancy. (PMID:6813349). This antibody was used for determination of highly purified human NK cells by flow cytometry (PMID:6975321). This antibody was used for the identification of a CD38-like 78-Kilodalton soluble protein released from B Cell Lines derived from patients with X-linked Agammaglobulinemia (PMID:9637716)

Antibody First Published in: Reinherz et al. Discrete stages of human intrathymic differentiation: Analysis of normal thymocytes and leukemic lymphoblasts of T-cell lineage PNAS; Issue: 3; Volume: 77, Pages: 1588-1592. [PMID:6966400](https://pubmed.ncbi.nlm.nih.gov/6966400/)

Note on publication: Describes the generation of antibody and its use with other antibodies to define the three discrete stages of human intrathymic T-cell differentiation.

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.