

## Anti-CD43 [OX-58] Standard Size Ab00586-8.1

This chimeric rat antibody was made using the variable domain sequences of the original Mouse IgG2b format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Rat IgG2b, Kappa

**Clone Number:** OX-58

**Alternative Name(s) of Target:** Leukosialin; Leukocyte sialoglycoprotein; Sialophorin; W3/13 antigen; OX 58; MRC OX 58

**UniProt Accession Number of Target Protein:** P13838

**Published Application(s):** RIA, WB, FC

**Published Species Reactivity:** Rat

**Immunogen:** This antibody was prepared by immunizing BALB/c mice with rat thymocyte leukosialin and thymocytes.

**Specificity:** This antibody recognises rat leukosialin, a major cell-surface sialoglycoprotein of thymocytes and T lymphocytes. It is also expressed on neutrophils, bone marrow stem cells and B-lineage cells after activation. The specificity of the leukosialin epitope is largely determined by linear protein sequence, as indicated by the reaction of this antibody with the extracellular domain of leukosialin expressed in an unglycosylated form in *E. coli*. However, the sensitivity of this antibody to neuraminidase treatment of leukosialin indicates that glycosylation can modify epitope conformation or flexibility.

**Application Notes:** This antibody binds to rat leukosialin, and can be used to label thymocytes and T lymphocytes in the lymph node cell population in flow cytometry analysis. This antibody has also been used, along with other anti-CD43 MABs, in a Western blot analysis to localize leukosialin epitopes.

**Antibody First Published in:** Cyster et al. The dimensions of the T lymphocyte glycoprotein leukosialin and identification of linear protein epitopes that can be modified by glycosylation. *EMBO J.* 1991 Apr;10(4):893-902. [PMID:1706994](#)

**Note on publication:** Describes the original use of this antibody, along with other anti-CD43 MABs, in FC, WB and plate binding assay studies to determine the dimensions of the extracellular part of the leukosialin molecule, and to establish that the antigenic determinants recognized are largely based on linear protein sequences.

## 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.