

## Anti-MHC I (RT1A) [OX-18] Standard Size Ab00557-8.4

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 rat antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Rat IgG2b, Fc Silent™, Kappa

**Clone Number:** OX-18

**Alternative Name(s) of Target:** RT-1A; RT-1A histocompatibility antigen; non-polymorphic determinant of rat MHC class I; MHC class I; OX18; MRC OX18; MRC OX-18

**UniProt Accession Number of Target Protein:** P16391

**Published Application(s):** IP, ELISA, FC, IHC-Fr

**Published Species Reactivity:** Rat

**Immunogen:** OX-18 was prepared by immunizing BALB/c mice with rat spleen glycoproteins of the size of Ia antigens which has been depleted of Ia antigens using an OX-6 affinity column.

**Specificity:** OX18 binds to a non-polymorphic / monomorphic determinant of rat MHC class I protein.

**Application Notes:** This antibody binds to a monomorphic determinant of rat MHC Class I (RT1A). It is routinely used in flow-cytometry applications and has been shown to work in frozen immunohistochemistry assays.

**Antibody First Published in:** Fukumoto T, McMaster WR, Williams AF Mouse monoclonal antibodies against rat major histocompatibility antigens. Two Ia antigens and expression of Ia and class I antigens in rat thymus. Eur J Immunol. 1982 Mar;12(3):237-43 [PMID:6178598](#)

**Note on publication:** Describes the generation of the original hybridoma and the use of OX18 in analyzing RT-1A antigens on rat thymocytes

## 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.