

Product datasheet for **TA399791**

Cd4 Mouse Monoclonal Antibody [Clone ID: OX-38]

Product data:

Product Type: Primary Antibodies

Clone Name: OX-38

Applications: FC, IP

Reactivity: Rat

Host: Mouse

Isotype: IgG2a, kappa

Clonality: Monoclonal

Immunogen: The original antibody was generated by immunizing mice with rat lymphocytes or rat thymocyte glycoproteins.

Specificity: This antibody binds rat CD4 cell surface antigen. CD4 is a transmembrane glycoprotein expressed on T helper cells, thymocytes, monocytes and macrophages. It plays an important role in the response of T helper cells to antigen. This antibody binds an identical or adjacent epitope to that bound by W3/25 antibody, and competes with mouse anti-rat CD4 antibody W3/25 for binding rat CD4.

This antibody can be used to identify CD4 antigen present on T cells, thymocytes, monocytes etc. using flow cytometry. This antibody was also able to immunoprecipitate detergent extracts of iodine 125 labeled thymocytes (PMID: 3159821). This antibody can be used for the in vitro depletion of T helper cells from slice cultures in studies looking for myelin loss in multiple sclerosis, the observed disruption being abrogated in these experimental conditions by T-cell depletion (PMID: 25500111). This antibody was tested for its ability to prolong the survival of heterotopic vascularized rat heart allografts transplanted across major histocompatibility barriers. Nine of 12 treated rats have maintained heterotopic abdominal heart allografts for greater than 175 days (PMID: 1976282). This antibody was used in a study to demonstrate that monoclonal antibody-induced depletion of CD4 helper/inducer T lymphocytes before transplantation of a fully mismatched heart allograft allows permanent engraftment in rats without further immunosuppression (PMID: 1977898).

Formulation: PBS with 0.02% Proclin 300.

Concentration: lot specific

Conjugation: Unconjugated



[View online »](#)

Storage: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Database Link: [P05540](#)

Synonyms: T-cell surface antigen T4/Leu-3; T-cell surface glycoprotein CD4; W3/25 antigen