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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-CD4 [OX-38] Bulk Size Ab03050-2.0-BT

Isotype and Format: Mouse IgG2a, Kappa

Clone Number: OX-38

Alternative Name(s) of Target: W3/25 antigen; T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3;

UniProt Accession Number of Target Protein: P05540

Published Application(s): IP, FC

Published Species Reactivity: Rat

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.

Application Notes: 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).

Antibody First Published in: Jefferies et al. Authentic T helper CD4 (W3/25) antigen on rat peritoneal macrophages. J Exp Med. 1985 Jul 1;162(1):117-27. [PMID:3159821](#)

Note on publication: Describes the generation of this antibody and its use in the characterization of the CD4 (W3/25) antigen present on rat peritoneal macrophages.

Product Form

Size:

1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.