



Mouse Anti-Rat CD4 Monoclonal antibody, clone OX-38 (CABT-L4534)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The OX-38 monoclonal antibody reacts with the rat CD4.
Target	Rat CD4
Immunogen	Rat thymocyte glycoproteins
Isotype	IgG2a, κ
Source/Host	Mouse
Species Reactivity	Rat
Clone	OX-38
Purification	Protein A purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo CD4+ T cell depletion, FC
Molecular Weight	150 kDa
Format	0.2 μ M filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free]

Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay
Related dilution buffer: CABT-LB04

Preservative	None
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Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
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Ship	Wet ice
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BACKGROUND

Introduction The OX-38 monoclonal antibody reacts with the rat CD4. The CD4 antigen is a 55 kDa cell surface type I membrane glycoprotein belonging to the immunoglobulin superfamily. CD4 acts as a co-receptor which in cooperation with the T cell receptor (TCR) interacts with class II MHC molecules displayed by antigen presenting cells (APC). CD4 is expressed by the majority of thymocytes, most helper T cells, a subset of NK-T cells and weakly by dendritic cells and macrophages. CD4 plays an important role in the development of T cells and is required for mature T cells to function optimally. The OX-38 antibody has been reported to deplete CD4+ T cells in vivo.

Keywords CD4;T-cell surface glycoprotein CD4;cell surface glycoprotein CD4;T-cell surface antigen T4/Leu-3;

GENE INFORMATION

Official Symbol CD4 molecule

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

References Xiao, C. X., et al. (2013). "Distribution of bone-marrow-derived endothelial and immune cells in a murine colitis-associated colorectal cancer model." PLoS One 8(9): e73666. PubMed;
