

Product datasheet

Anti-CD4 antibody [OX-35] ab33775

5 References

Overview

Product name	Anti-CD4 antibody [OX-35]
Description	Mouse monoclonal [OX-35] to CD4
Tested applications	Suitable for: ICC, Flow Cyt, IHC-Fr
Species reactivity	Reacts with: Rat
Immunogen	MLR generated rat T helper lymphocytes.
Epitope	This antibody recognises a different epitope on the CD4 molecule than the W3/25 monoclonal (eg ab33779 and ab33783).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: PBS, pH 7.4
Purity	Protein G purified
Clonality	Monoclonal
Clone number	OX-35
Myeloma	NS1
Isotype	IgG2a

Applications

Our [Abpromise guarantee](#) covers the use of **ab33775** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC		Use at an assay dependent concentration.

Application	Abreviews	Notes
Flow Cyt		1/10 - 1/50. Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl.
		ab170191 -Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
IHC-Fr		Use at an assay dependent concentration.

Target

Function	Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts.
Sequence similarities	Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Post-translational modifications	Palmitoylation and association with LCK contribute to the enrichment of CD4 in lipid rafts.
Cellular localization	Cell membrane. Localizes to lipid rafts. Removed from plasma membrane by HIV-1 Nef protein that increases clathrin-dependent endocytosis of this antigen to target it to lysosomal degradation. Cell surface expression is also down-modulated by HIV-1 Envelope polyprotein gp160 that interacts with, and sequesters CD4 in the endoplasmic reticulum.

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