

## Product datasheet

# Anti-CD4 antibody [OX-35] ab33775

### 5 References

#### Overview

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

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	Preservative: 0.09% Sodium Azide Constituents: PBS, pH 7.4
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	OX-35
<b>Myeloma</b>	NS1
<b>Isotype</b>	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 <sup>6</sup> cells in 100µl.
		<a href="#">ab170191</a> -Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
IHC-Fr		Use at an assay dependent concentration.

## Target

<b>Function</b>	Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts.
<b>Sequence similarities</b>	Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
<b>Post-translational modifications</b>	Palmitoylation and association with LCK contribute to the enrichment of CD4 in lipid rafts.
<b>Cellular localization</b>	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 glycoprotein gp160 that interacts with, and sequesters CD4 in the endoplasmic reticulum.

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