

## Product datasheet

# Anti-CD4 antibody [vpg 39] ab23504

### 1 References

#### Overview

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<b>Product name</b>	Anti-CD4 antibody [vpg 39]
<b>Description</b>	Mouse monoclonal [vpg 39] to CD4
<b>Host species</b>	Mouse
<b>Specificity</b>	Recognises the feline homologue of the human CD4 antigen. This antibody does not recognise CD4 in a small number of cats, and is therefore likely to recognise a polymorphic epitope. CD4 is not expressed on feline monocytes.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-Fr, IP, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Cat <b>Does not react with:</b> Human
<b>Immunogen</b>	Full length native protein (purified) (Feline).

#### Properties

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<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 or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.09% Sodium Azide Constituents: Tissue culture supernatant, 0.2M Tris HCl, pH 7.4
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	vpg 39
<b>Myeloma</b>	NS0
<b>Isotype</b>	IgG1

#### Applications

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Our [Abpromise guarantee](#) covers the use of **ab23504** 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
IHC-Fr		
IP		
Flow Cyt		

#### Application notes

Flow Cyt: Use 50µl of neat antibody for 10<sup>6</sup> cells lymphocytes in 100ul.  
 IHC-Fr: Use at an assay dependent dilution.  
 IP: Use at an assay dependent dilution.

Not tested in other applications.  
 Optimal dilutions/concentrations should be determined by the end user.

#### 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 glycoprotein gp160 that interacts with, and sequesters CD4 in the endoplasmic reticulum.

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