

Product datasheet

Anti-CD4 antibody [vpg 39] ab23504

1 References

Overview

Product name	Anti-CD4 antibody [vpg 39]
Description	Mouse monoclonal [vpg 39] to CD4
Specificity	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.
Tested applications	Suitable for: IHC-Fr, IP, Flow Cyt
Species reactivity	Reacts with: Cat Does not react with: Human
Immunogen	Full length native protein (purified) (Feline).

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

Applications

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		

Application	Abreviews	Notes
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IP

Flow Cyt

Application notes

Flow Cyt: Use 50µl of neat antibody for 10⁶ 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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