

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 |
| Host species | Mouse |
| 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 | | |
| 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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