abcam

ab33775

Anti-CD4 antibody [OX-35]

Lab Essentials

Key facts

Isotype	IgG2a
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing Cd4 protein. The exact immunogen used to generate this antibody is proprietary information. Database link P05540
Clone number	OX-35
Purification technique	Affinity purification Protein A
Epitope	This antibody recognises a different epitope on the CD4 molecule than the W3/25 monoclonal (eg ab33779 and ab33783).
Light chain type	kappa
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified by Protein A affinity chromatography

Reactivity data

Flow Cyt

Tested

Species	Rat
Dilution info	1-4 µg/mL
Notes	-

Target data

See full target information Cd4

Function	Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class II molecule:peptide complex. The antigens presented by class II peptides are derived from extracellular proteins while class I peptides are derived from cytosolic proteins. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class II presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. LCK then initiates different intracellular signaling pathways by phosphorylating various substrates ultimately leading to lymphokine production, motility, adhesion and activation of T-helper cells. In other cells such as macrophages or NK cells, plays a role in differentiation/activation, cytokine expression and cell migration in a TCR/LCK-independent pathway. Participates in the development of T-helper cells in the thymus and triggers the differentiation of monocytes into functional mature macrophages.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

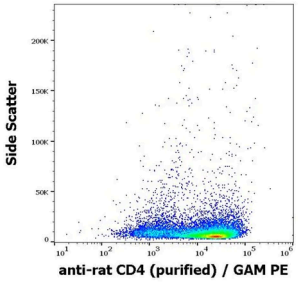
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
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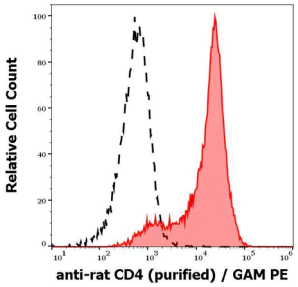
2 product images



Flow Cytometry - Anti-CD4 antibody [OX-35] (ab33775)

CD4 Flow Cytometry staining using mouse Anti-CD4 antibody

Surface staining flow cytometric pattern of rat splenocytes stained with 1.6µg/ml ab33775 anti-rat CD4 purified antibody, GAM PE



Flow Cytometry - Anti-CD4 antibody [OX-35] (ab33775)

CD4 Flow Cytometry staining using mouse Anti-CD4 antibody

Flow cytometric analysis using surface staining of rat splenocyte suspension. Rat splenocytes are stained using 1.6µg/ml ab33775 anti-rat CD4, GAM PE, (red) and are separated from REH cells stained with 1.6µg/ml mouse isotype control purified antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.