

Product datasheet

Anti-CD4 antibody [EP96] ab24902

Overview

Product name	Anti-CD4 antibody [EP96]
Description	Mouse monoclonal [EP96] to CD4
Specificity	ab24902 recognises CD4.
Tested applications	Suitable for: Functional Studies, Flow Cyt, IHC-Fr, IP
Species reactivity	Reacts with: Chicken
Immunogen	The details of the immunogen for this antibody are not available.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 8.20 Constituent: 100% Borate buffered saline
Purity	Purified IgM
Clonality	Monoclonal
Clone number	EP96
Isotype	IgM
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab24902** 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
Functional Studies		Use at an assay dependent concentration. Inhibition of mitogen-induced proliferation.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration. ab18400 - Mouse monoclonal IgM, is suitable for use as an isotype control with this antibody.
IHC-Fr		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

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

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