9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

30-2091: Anti-CD4 Monoclonal Antibody (Clone:OX-35)-FITC Conjugated

Clonality :	Monoclonal
Clone Name :	OX-35
Application :	FACS
Reactivity :	Rat
Conjugate :	FITC
Gene :	Cd4
Gene ID :	24932
Uniprot ID :	P05540
Alternative Name :	Cd4
Isotype :	Mouse IgG2a
Immunogen Information :	MLR generated rat Th cells

Description

CD4 is a single chain transmembrane glycoprotein of immunoglobulin supergene family. In its extracellular region there are 4 immunoglobulin-like domains (1 Ig-like V-type and 3 Ig-like C2-type). The intracellular region of CD4 associates with p56Lck, a Src-like protein tyrosine kinase. It was described that CD4 segregates into specific detergent-resistant T-cell membrane microdomains. CD4 binds to MHC class II molecules (by CDR2-like region in CD4 domain 1), HIV envelope protein gp120 (by CDR2-like region in CD4 domain 1) and other ligands, such as IL-16 (by to CD4 domain 3) or L-selectin. CD4 is a co-receptor involved in immune response (co-receptor activity in binding to MHC class II molecules) and HIV infection. CD4 regulates T-cell activation, T/B-cell adhesion, T-cell differenciation, T-cell selection and signal transduction. Defects in antigen presentation (MHC class II) cause dysfunction of CD4+ T-cells and their almost complete absence in patients blood, tissue and organs (SCID immunodeficiency).

Product Info

Amount :	0.1 mg
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

Flow cytometry: Recommended dilution: 1-4 µg/ml.

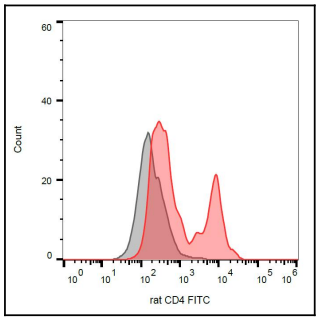


Figure 1: Surface staining of rat thymocytes with anti-rat CD4 (OX-35) FITC.

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