OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene EU

Acris Antibodies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info@acris-antibodies.com

Monoclonal Antibody to CD4 - Aff - Purified

Alternate names: T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4

Catalog No.: TA349004

Quantity: 0.1 mg

Background: CD4 is a member of the immunoglobulin superfamily and is implicated as associative recognition element in MHC (Major Histocompatibility Complex) class II-restricted immune response. On T-lymphocytes, it defines the helper/inducer subset. The mature 55 kd CD4 protein consists of a 372 amino acid extracellular segment composed of four tandem immunoglobulin-like VJ regions. The CD4 molecule is a major receptor for human immunodeficiency virus (HIV), binding directly to the envelope glycoprotein gp120 on HIV, with the co-receptors being CCR5 or CXCR4. It has been shown that the V-like domains are critical for binding with HIV envelope gp120.

Uniprot ID: P01730

NCBI: NP_000607

GeneID: 920

Host / Isotype: Mouse / IgG

Clone: 9H5A8

Immunogen: A 193 amino acid recombinant protein from near the amino terminus of Human CD4 (GenBank accession No. NP_000607).

Format:
State: Liquid purified Ig fraction.
Purification: Immunoaffinity Chromatography.
Buffer System: PBS containing 0.02% Sodium Azide as preservative.

Applications:
ELISA.
Western Blot: CD4 antibody can be used for detection of CD4 at 0.5-1 µg/ml.
Positive Control: Human Thymus Tissue Lysate.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
Recognizes CD4
Species: Human, Mouse and Rat.
Other species not tested.

Add. Information:
Related Products:
AM20151PU-N: CD4 Antibody (8G1B12)
AP30373PU-N: gp120 Antibody
AP30266PU-N: CXCR4 Antibody (N-term)

Storage:
Store the antibody undiluted at 2-8°C.
Shelf life: one year from despatch.

General Readings:

1. Bowers K, Pitcher C, Marsh M. CD4: a co-receptor in the immune response and HIV infection. Int J Biochem Cell Biol. 1997 Jun;29(6):871-5. PubMed PMID: 9304802.
2. Arthos J, Deen KC, Chaikin MA, Fornwald JA, Sathe G, Sattentau QJ, et al. Identification of the residues in human CD4 critical for the binding of HIV. Cell. 1989 May 5;57(3):469-81. PubMed PMID: 2541915.

Pictures:

Western blot analysis of CD4 in human thymus tissue lysate with CD4 antibody at (A) 0.5 and (B) 1 ug/mL.