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Anti-Cd4 Antibody

Catalog Number: A00344-3

About Cd4

This gene encodes the CD4 membrane glycoprotein of T lymphocytes. The CD4 antigen acts as a coreceptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell in the context of class II MHC molecules. The CD4 antigen is also a primary receptor for entry of the human immunodeficiency virus through interactions with the HIV Env gp120 subunit. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, granulocytes, as well as in various regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified in this gene.

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Overview

Product Name	Anti-Cd4 Antibody
Reactive Species	Rat
Description	Boster Bio Anti-Cd4 Antibody catalog # A00344-3. Tested in ELISA, IHC applications. This antibody reacts with Rat.
Application	ELISA, IHC
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P05540

Technical Details

Immunogen	E.coli-derived rat Cd4 recombinant protein (Position: K28-A246).
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

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Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Rat ELISA, 0.1-0.5 ug/ml, Rat

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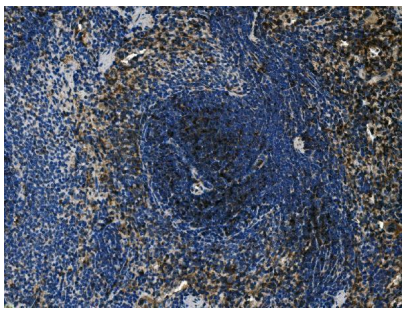
Anti-Cd4 Antibody (A00344-3) Images



IHC analysis of Cd4 using anti-Cd4 antibody (A00344-3). Cd4 was detected in a paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Cd4 Antibody (A00344-3) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

3 Publications Citing This Product

1. PubMed ID: 10.1016/j.fertnstert.2006.11.063, Endocrine function and lymphocyte infiltration of newborn rat ovaries after ultrarapid freezing and allotransplantation

2. PubMed ID: 25609949, Wang X, Shi L, Tu Q, Wang H, Zhang H, Wang P, Zhang L, Huang Z, Zhao F, Luan H, Wang X. Int J Nanomedicine. 2015 Jan 6;10:347-55. Doi: 10.2147/Ijn.S71245. Ecollection 2015. Treating Cutaneous Squamous Cell Carcinoma Using 5-Aminolevulinic Acid Pol...

3. PubMed ID: 24038990, Zhao N, Li X, He X, Qiu Y, Zhu L, Qi F. J Gene Med. 2013 Oct;15(10):366-74. Doi: 10.1002/Jgm.2739. Interleukin-15 Gene Therapy And The Mammalian Target Of Rapamycin Inhibitor Everolimus Inhibit The Growth Of Metastatic Breast Cancer.

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