CD4 monoclonal antibody, clone QS4120

Catalog # MAB6896 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against CD4.
Immunogen	CD4+ transfectant/ CEM.
Host	Mouse
Reactivity	Human
Specificity	Antibody QS4120 recognizes an epitope in the CDR2-like loop within domain 1 region of the CD4 molecule. Antibody QS4120 will block binding of HIV-1 gp120 protein to CD4 and also blocks HLA Class II Rosette formation.
Form	Liquid
Isotype	IgG1
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM sodium phosphate buffer, 100 mM potassium Chloride, 150 mM NaCl, pH 7.5 (0.5 mg/mL gentamicin sulfate)
Storage Instruction	Store at 4°C.

Applications

- Immunohistochemistry (Frozen sections)
- Flow Cytometry
- Immunoprecipitation

Gene Info — CD4

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Entrez GeneID	920
Gene Name	CD4
Gene Alias	CD4mut
Gene Description	CD4 molecule
Omim ID	186940
Gene Ontology	Hyperlink
Other Designations	CD4 antigen|CD4 antigen (p55)|CD4 receptor

Publication Reference

- A specific CD4 epitope bound by tregalizumab mediates activation of regulatory T cells by a unique signaling pathway.

  Helling B, Konig M, Dalken B, Engling A, Kromer W, Heim K, Wallmeier H, Haas J, Wildemann B, Fritz B, Jonuleit H, Kubach J, Dingermann T, Radeke HH, Osterroth F, Uherek C, Czeloth N, Schuttrumpf J.

  Immunology and Cell Biology 2015 Apr; 93(4):396.

  Application: Func, Human, Human T cells

- Differential association of CD45 isoforms with CD4 and CD8 regulates the actions of specific pools of p56lck tyrosine kinase in T cell antigen receptor signal transduction.

  Dornan S, Sebestyen Z, Gamble J, Nagy P, Bodnar A, Alldridge L, Doe S, Holmes N, Goff LK, Beverley P, Szollosi J, Alexander DR.

  The Journal of Biological Chemistry 2002 Jan; 277(3):1912.

  Application: Flow Cyt, IP, Human, HPB-ALL cells

- HIV-1 gp120 induces an association between CD4 and the chemokine receptor CXCR4.

  Ugolini S, Moulard M, Mondor I, Barois N, Demandolx D, Hoxie J, Brelot A, Alizon M, Davoust J, Sattentau QJ.

  Journal of Immunology 1997 Sep; 159(6):3000.

  Application: Flow Cyt, Human, A3.01, Mv-1-lu, T cells

- Involvement of both major histocompatibility complex class II alpha and beta chains in CD4 function indicates a role for ordered oligomerization in T cell activation.

  Konig R, Shen X, Germain RN.

  The Journal of Experimental Medicine 1995 Sep; 182(3):779.

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Pathway

- Antigen processing and presentation
- Cell adhesion molecules (CAMs)
- Hematopoietic cell lineage
- Primary immunodeficiency
- T cell receptor signaling pathway

Disease

- Acquired Immunodeficiency Syndrome
- Arthritis
- Asthma
- Breast cancer
- Breast Neoplasms
- Disease Progression
- Disease Susceptibility
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Hematologic Diseases
- Hepatitis C
- HIV Infections
- Hodgkin Disease
- Lung Neoplasms
- Lupus Erythematosus
- Lymphoproliferative Disorders
- Multiple Myeloma

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Multiple Sclerosis
- Neoplasm Recurrence
- Neoplasms
- Occupational Diseases
- Pregnancy Complications
- Pulmonary Disease
- Urinary Bladder Neoplasms
- Viremia
- Vitiligo
- Waldenstrom Macroglobulinemia
- Werner syndrome

Copyright © 2023 Abnova Corporation. All Rights Reserved.