CD3 monoclonal antibody, clone MEM-57 (PerCP)

Catalog # MAB4622 Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native CD3.
Immunogen	Native purified CD3 from human thymocytes and T lymphocytes.
Host	Mouse
Reactivity	Human
Specificity	This antibody reacts with gamma-epsilon and delta-epsilon dimers of human CD3 complex, a part of a bigger multisubunit T cell receptor complex (CD3/TCR) expressed on peripheral blood T lymphocytes and mature thymocytes.
Form	Liquid
Conjugation	PerCP
Isotype	IgG2a
Recommend Usage	Flow Cytometry (10 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Flow Cytometry

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Gene Info — CD3D

Entrez GeneID	915
Gene Name	CD3D
Gene Alias	CD3-DELTA, T3D
Gene Description	CD3d molecule, delta (CD3-TCR complex)
Omim ID	186790 600802
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is part of the T-cell receptor/CD3 complex (TCR/CD3 complex) and is involved in T-cell development and signal transduction. The encoded membrane protein re presents the delta subunit of the CD3 complex, and along with four other CD3 subunits, binds eith er TCR alpha/beta or TCR gamma/delta to form the TCR/CD3 complex on the surface of T-cells. Defects in this gene are a cause of severe combined immunodeficiency autosomal recessive T-c ell-negative/B-cell-positive/NK-cell-positive (SCIDBNK). Two transcript variants encoding different isoforms have been found for this gene. Other variants may also exist, but the full-length natures of their transcripts has yet to be defined. [provided by RefSeq
Other Designations	CD3D antigen, delta polypeptide|CD3d antigen, delta polypeptide (TiT3 complex)|T-cell receptor T3 delta chain|T-cell surface glycoprotein CD3 delta chain

Gene Info — CD3E

Entrez GeneID	916
Gene Name	CD3E
Gene Alias	FLJ18683, T3E, TCRE
Gene Description	CD3e molecule, epsilon (CD3-TCR complex)
Omim ID	186830
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gam ma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognitio n to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma a nd delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptid e plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. Thi s gene has also been linked to a susceptibility to type I diabetes in women. [provided by RefSeq

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Other Designations	CD3-epsilon|CD3E antigen, epsilon polypeptide|CD3e antigen, epsilon polypeptide (TiT3 complex)|T-cell antigen receptor complex, epsilon subunit of T3|T-cell surface antigen T3/Leu-4 epsilon chain|T-cell surface glycoprotein CD3 epsilon chain

Gene Info — CD3G

Entrez GeneID	917
Gene Name	CD3G
Gene Alias	CD3-GAMMA, FLJ17620, FLJ17664, FLJ79544, FLJ94613, MGC138597, T3G
Gene Description	CD3g molecule, gamma (CD3-TCR complex)
Omim ID	186740
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is the CD3-gamma polypeptide, which together with CD3-epsilon, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. Defects in this gene are associated with T cell immunodeficiency. [provided by RefSeq
Other Designations	CD3G antigen, gamma polypeptide|CD3g antigen, gamma polypeptide (TiT3 complex)|T-cell antigen receptor complex, gamma subunit of T3|T-cell receptor T3 gamma chain|T-cell surface glycoprotein CD3 gamma chain

Publication Reference

- T-cell antigen-receptor stoichiometry: pre-clustering for sensitivity.

  Alarcon B, Swamy M, van Santen HM, Schamel WW.

  EMBO Reports 2006 May; 7(5):490.

- Therapeutic in vivo use of the A1-CD3 monoclonal antibody.

  I Hilgert , F Franěk, I Stefanová, J Kaslík, J Jirka, H Kristofová, P Rossmann, J Soucek, V Horejsi.

  Transplantation 1993 Feb; 55(2):435.

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Monoclonal antibodies against human leucocyte antigens. II. Antibodies against CD45 (T200), CD3 (T3), CD43, CD10 (CALLA), transferrin receptor (T9), a novel broadly expressed 18-kDa antigen (MEM-43) and a novel antigen of restricted expression (MEM-74).

  Horejsí V, Angelisová P, Bazil V, Kristofová H, Stoyanov S, Stefanová I, Hausner P, Vosecký M, Hilgert I.

  Folia Biol (Praha) 1988 Jan; 34(1):23.

Pathway

- Hematopoietic cell lineage
- Hematopoietic cell lineage
- Hematopoietic cell lineage
- Primary immunodeficiency
- Primary immunodeficiency
- T cell receptor signaling pathway
- T cell receptor signaling pathway
- T cell receptor signaling pathway

Disease

- Arthritis
- Asthma
- Cardiovascular Diseases
- Celiac Disease
- Celiac Disease
- Celiac Disease
- Depressive Disorder
- Diabetes Mellitus

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Inflammation

Copyright © 2023 Abnova Corporation. All Rights Reserved.