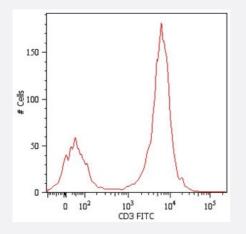
CD3 monoclonal antibody, clone MEM-57 (FITC)

Catalog # MAB4616 Size 100 Reactions

Applications



Flow Cytometry

Surface staining of human peripheral blood cells with CD3 monoclonal antibody, clone MEM-57 (FITC) (Cat # MAB4616). Cells in the lymphocyte gate were used for analysis.

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 lymphocyt es and mature thymocytes.
Form	Liquid
Conjugation	FITC
lsotype	lgG2a
Recommend Usage	Flow Cytometry (20 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.

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Product Information

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 shoul d be handled by trained staff only.

Applications

Flow Cytometry

Surface staining of human peripheral blood cells with CD3 monoclonal antibody, clone MEM-57 (FITC) (Cat # MAB4616). Cells in the lymphocyte gate were used for analysis.

Gene Info — CD3D

Entrez GenelD	<u>915</u>
Gene Name	CD3D
Gene Alias	CD3-DELTA, T3D
Gene Description	CD3d molecule, delta (CD3-TCR complex)
Omim ID	<u>186790 600802</u>
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 GenelD	<u>916</u>

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Product Information

Gene Name	CD3E
Gene Alias	FLJ18683, T3E, TCRE
Gene Description	CD3e molecule, epsilon (CD3-TCR complex)
Omim ID	<u>186830</u>
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
Other Designations	CD3-epsilon CD3E antigen, epsilon polypeptide CD3e antigen, epsilon polypeptide (TiT3 compl ex) 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 GenelD	<u>917</u>
Gene Name	CD3G
Gene Alias	CD3-GAMMA, FLJ17620, FLJ17664, FLJ79544, FLJ94613, MGC138597, T3G
Gene Description	CD3g molecule, gamma (CD3-TCR complex)
Omim ID	<u>186740</u>
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is the CD3-gamma polypeptide, which together with CD3-epsil on, -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. Defects in this gene ar e associated with T cell immunodeficiency. [provided by RefSeq
Other Designations	CD3G antigen, gamma polypeptide CD3g antigen, gamma polypeptide (TiT3 complex) T-cell anti gen receptor complex, gamma subunit of T3 T-cell receptor T3 gamma chain T-cell surface glycop rotein CD3 gamma chain



Publication Reference

- <u>T-cell antigen-receptor stoichiometry: pre-clustering for sensitivity.</u> 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.

 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
- <u>Hematopoietic cell lineage</u>
- Hematopoietic cell lineage
- Primary immunodeficiency
- Primary immunodeficiency
- <u>T cell receptor signaling pathway</u>
- <u>T cell receptor signaling pathway</u>
- <u>T cell receptor signaling pathway</u>

Disease

- Arthritis
- Asthma

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- Cardiovascular Diseases
- <u>Celiac Disease</u>
- <u>Celiac Disease</u>
- <u>Celiac Disease</u>
- Depressive Disorder
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Inflammation