SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Antibody Discovery - Human CD3 epsilon & CD3 delta Heterodimer (23-126(CD3E)&22-105(CD3D)) Membrane Protein, Partial, -Llama IgG2b Fc tag & -Llama IgG2b Fc tag, low endotoxin

Cat. No.: **MP1253F**
This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human CD3 epsilon & CD3 delta Heterodimer (23-126(CD3E)&22-105(CD3D)). It has been tested in SDS-PAGE, ELISA. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species
Human

Target Protein
CD3 epsilon & CD3 delta Heterodimer

Protein Length
ECD

Molecular Weight
Human CD3E & CD3D Heterodimer Protein, Llama IgG2b Fc Tag & Llama IgG2b Fc Tag, low endotoxin is produced by co-expression of CD3E and CD3D, has a calculated MW of 42.9 kDa (CD3E) and 40.8 kDa (CD3D). Subunit CD3E is fused with a llama IgG2b Fc tag at the C-terminus and subunit CD3D is fused with a llama IgG2b Fc tag at the C-terminus. The predicted N-terminus is Asp 23 (CD3E) & Phe 22 (CD3D). The reducing (R) protein migrates as 50-60 kDa due to glycosylation.

Sequence
AA Asp 23 - Asp 126 (CD3E) & Phe 22 - Ala 105 (CD3D) (Accession # P07766-1 (CD3E) & P04234-1 (CD3D)).

Product Description

Activity
Yes

Application
SDS-PAGE, ELISA

Expression Systems
HEK293

Tag

CD3E is fused with a Llama IgG2b Fc tag at the C-terminus. and subunit CD3D is fused with a Llama IgG2b Fc tag at the C-terminus.

Protein Format

Soluble

Form

LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<0.01 EU/μg by the LAL method

Purity

>95% as determined by SDS-PAGE.

Buffer

Lyophilized from 0.22 μm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.
The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile coditions after reconstitution after storage at -80°C.

Target

Target Protein

CD3 epsilon & CD3 delta Heterodimer

Full Name

CD3e molecule&CD3d molecule

Introduction

The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gamma, -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. The epsilon polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women.

Alternative Names

CD3-epsilon, CD3e antigen, epsilon polypeptide (TiT3 complex), CD3e molecule, epsilon (CD3-TCR complex), T-cell antigen receptor complex, epsilon subunit of T3, T-cell surface antigen T3/Leu-4 epsilon chain, T-cell surface glycoprotein CD3 delta chain, CD3d molecule, delta (CD3-TCR complex)

Gene ID

916; 915

UniProt ID

P07766; P04234