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Datasheet for ABIN7013164
CD3G Protein (AA 23-116) (Fc Tag)

1 Image

Overview

Quantity:	100 µg
Target:	CD3G
Protein Characteristics:	AA 23-116
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD3G protein is labelled with Fc Tag.

Product Details

Characteristics:	Human CD3 gamma / CD3G Protein, Fc Tag (MALS verified)
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CD3G
Alternative Name:	CD3 gamma (CD3G Products)
Background:	CD3 gamma chain is part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain. Upon TCR engagement,

Target Details

these motifs become phosphorylated by Src family protein tyrosine kinases LCK and FYN, resulting in the activation of downstream signaling pathways. In addition to this role of signal transduction in T-cell activation, CD3G plays an essential role in the dynamic regulation of TCR expression at the cell surface. Indeed, constitutive TCR cycling is dependent on the di-leucine-based (diL) receptor-sorting motif present in CD3G.

Molecular Weight: 37.1 kDa

Pathways: [TCR Signaling, CXCR4-mediated Signaling Events](#)

Application Details

Application Notes: MALS verified

Restrictions: For Research Use only

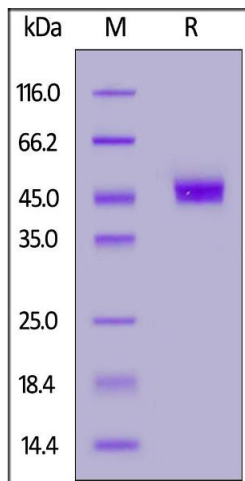
Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Storage: -20 °C

Images



SDS-PAGE

Image 1. Human CD3 gamma, Fc Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .