Datasheet for ABIN7482405

CD3 epsilon Protein (CD3E) (His tag)

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Overview

Quantity:	100 µg
Target:	CD3 epsilon (CD3E)
Origin:	Dog
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD3 epsilon protein is labelled with His tag.

Product Details

Purpose:	Canine CD3 epsilon Protein, His Tag (MALS verified)
Sequence:	Gln 22 - Leu 122
Characteristics:	Canine CD3 epsilon Protein, His Tag (MALS verified) is expressed from human 293 cells (HEK293). It contains AA Gln 22 - Leu 122 (Accession # P27597).
Purity:	90 %
Endotoxin Level:	1.0 EU per µg
Grade:	MALS verified

Target Details

Target:	CD3 epsilon (CD3E)
Alternative Name:	CD3 epsilon (CD3E Products)
Background:	CD3e molecule, epsilon is also known as CD3E, is a T-cell surface single-pass type I membrane

Target Details

	glycoprotein. CD3E contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3E, together with CD3-gamma, CD3-delta and CD3-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. CD3E plays an essential role in T-cell development, and defects in CD3E gene cause severe immunodeficiency. CD3E gene has also been linked to a susceptibility to type I diabetes in women. CD3E has been shown to interact with TOP2B, CD3EAP and NCK2.
Molecular Weight:	16.7 kDa
Pathways:	TCR Signaling, CXCR4-mediated Signaling Events, Ubiquitin Proteasome Pathway

Application Details

Comment:	This protein carries a polyhistidine tag at the C-terminus. (10xHis) The protein has a calculated MW of 16.7 kDa. The protein migrates as 19-25 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	-20 °C
Storage Comment:	-20°C