



Recombinant Human CD19 Protein [His] (DAGC353)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Human CD19 (20-291) Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Pro 20 - Lys 291 (Accession # P15391-1).
Species	Human
Purity	> 90 % as determined by SDS-PAGE.
Conjugate	His
Applications	ELISA
Predicted N terminal	Pro 20
Molecular Weight	The protein has a calculated MW of 32.0 kDa. The protein migrates as 45-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	< 1.0 EU per ug by the LAL method.
Format	Lyophilized
Size	50 µg, 500 µg
Buffer	Lyophilized from 0.22 um filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Preservative	None
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower.

BACKGROUND

Introduction

B-lymphocyte antigen CD19 is also known as CD19 (Cluster of Differentiation 19), is a single-pass type I membrane protein which contains two Ig-like C2-type (immunoglobulin-like) domains. CD19 is expressed on follicular dendritic cells and B cells. In fact, it is present on B cells from earliest recognizable B-lineage cells during development to B-cell blasts but is lost on maturation to plasma cells. It primarily acts as a B cell co-receptor in conjunction with CD21 and CD81. Upon activation, the cytoplasmic tail of CD19 becomes phosphorylated, which leads to binding by Src-family kinases and recruitment of PI-3 kinase. As on T cells, several surface molecules form the antigen receptor and form a complex on B lymphocytes. The (almost) B cell-specific CD19 phosphoglycoprotein is one of these molecules.

Keywords

CD19; B4; CVID3; MGC12802