

Product datasheet

Recombinant Human CD4 protein (Tagged) ab270583

Description

Product name	Recombinant Human CD4 protein (Tagged)	
Expression system	Mammalian	
Accession	P01730	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	KKVVLGKKGDTVELTCTASQKKSQFHWKNSNQIKILGNQ GSFLTKGPSK LNDRADSRRLWDQGNFPLIINKLKIEDSDTYICEVEDQKE EVQLLVFGL TANS DTHLLQGQSLTLTLESPPGSSPSVQCRSPRGKNIQG GKTL SVSQLE LQDSGTWCTVLQNQKKVEFKIDIVLAFQKASSIVYKKEG EQVEFSFPL AFTVEKLTGSGELWWQAERASSSKSWITFDLKNKEVSVK RVTQDPKLQMG KKLPLHLTLPQALPQYAGSGNLTALAEAKTGKLGHEVNLV VMRATQLQKN LTCEVWGPTSPKLM LSLKLENKEAKVSKREKAVVWLNPE AGMWQCLLSDS GQVLLESNIKVLPTW	
Predicted molecular weight	51 kDa	
Amino acids	26 to 390	
Tags	Fc tag C-Terminus	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab270583** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Form Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at -20°C.
pH: 7.40
Constituents: 0.03% EDTA, PBS

General Info

Function Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts.

Sequence similarities Contains 3 Ig-like C2-type (immunoglobulin-like) domains.
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Post-translational modifications Palmitoylation and association with LCK contribute to the enrichment of CD4 in lipid rafts.

Cellular localization Cell membrane. Localizes to lipid rafts. Removed from plasma membrane by HIV-1 Nef protein that increases clathrin-dependent endocytosis of this antigen to target it to lysosomal degradation. Cell surface expression is also down-modulated by HIV-1 Envelope polyprotein gp160 that interacts with, and sequesters CD4 in the endoplasmic reticulum.

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