



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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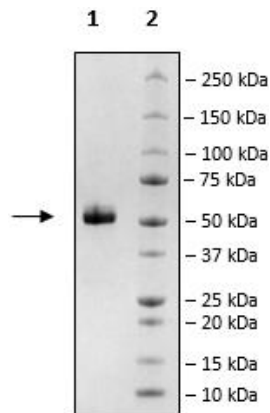
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Product Information

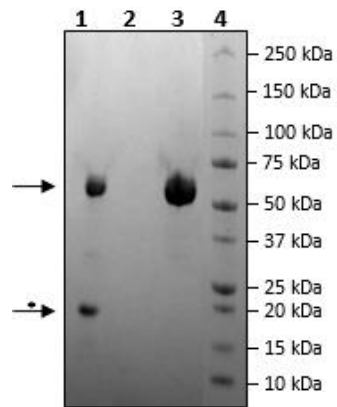
<b>Description:</b>	Recombinant human CD4, encompassing amino acids 26-396. This construct contains a C-terminal Avi-Tag™ followed by an His-tag (6xHis). This protein was affinity purified.
<b>Background:</b>	CD4 (cluster of differentiation 4) is part of the immunoglobulin superfamily, and it can be found in T-helper cells, monocytes, macrophages, and dendritic cells. It is a co-receptor in the TCR (T-cell receptor), binding to MHC (major histocompatibility complex) class II molecules. CD4 binds to the tyrosine kinase Lck (lymphocyte-specific protein tyrosine kinase), which phosphorylates the ITAM (immunoreceptor tyrosine activation motifs) domain of the CD3, activating CD3 related signaling. CD4 is a typical T cell marker of T helper cells, and it has been linked to cancer, autoimmune diseases such as vitiligo and type I diabetes. In addition, HIV-1 makes use of CD4 to trigger viral envelope protein conformational changes that allow cell infection. Ibalizumab, an anti-CD4 antibody, is currently used in the treatment of HIV, being considered a first-in-class medication. Further studies into CD4 and potential strategies around it may benefit patients and CD4 related diseases.
<b>Species:</b>	Human
<b>Construct:</b>	CD4 (26-396-Avi-His)-(Biotin)
<b>Concentration:</b>	0.62 mg/ml
<b>Expression System:</b>	HEK293
<b>Purity:</b>	≥90%
<b>Format:</b>	Aqueous buffer solution.
<b>Formulated In:</b>	8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
<b>MW:</b>	45 kDa + glycans
<b>Glycosylation:</b>	This protein runs at a higher MW by SDS-PAGE due to glycosylation.
<b>Genbank Accession:</b>	NM_000616.5
<b>Label:</b>	This protein is enzymatically biotinylated using Avi-Tag™ technology. Biotinylation is confirmed to be ≥90%.
<b>Stability:</b>	At least 6 months at -80°C.
<b>Storage:</b>	-80°C
<b>Instructions for Use:</b>	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
<b>Applications:</b>	Useful for avidin binding studies.

## Quality Control Data

### 4-20% SDS-PAGE Coomassie Staining



### Biotin-Avidin Pulldown



1. Beads
2. Flow Thru
3. Control
4. Standards

\* Avidin from beads.