

Product datasheet

Recombinant human CD3 protein (Active) ab220577

[2 Images](#)

Overview

Product name	Recombinant human CD3 protein (Active)
Protein length	Protein fragment

Description

Nature	Recombinant
Source	HEK 293 cells
Amino Acid Sequence 1	
Accession	P07766
Species	Human
Sequence	DGNEEMGGITQTPYKVSISGTTVILTCPQYPGSEILWQH NDKNIGGDEDD KNIGSDEDHLSLKEFSELEQSGYYVCYPRGSKPEDAN FYLRLRARCENC MEMD
Molecular weight	39 kDa including tags
Amino acids	23 to 126
Tags	His tag C-Terminus
Additional sequence information	Extracellular domain (NP_000724.1).
Amino Acid Sequence 2	
Accession	P09693
Species	Human
Sequence	QSIKGNHLVKVYDYQEDGSVLLTCDAEAKNITWFKDG KMIGFLTEDKKKW NLGSNAKDPRGMYQCKGSQNKSKPLQVYYRMCQNCI ELNAATIS
Molecular weight	39 kDa including tags
Amino acids	23 to 116
Tags	DDDDK tag C-Terminus
Additional sequence information	Extracellular domain (AAI13831).

Specifications

Our [Abpromise guarantee](#) covers the use of **ab220577** in the following tested applications.

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

Biological activity Measured by its binding ability in a functional ELISA. Immobilized OKT3 MAb at 10 µg/mL (100 µL/well) can bind ab220577 with a linear range of 0.3-5 µg/mL.

Applications Functional Studies
SDS-PAGE

Endotoxin level < 1.000 Eu/µg

Purity >95% by SDS-PAGE .

Form Lyophilised

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.40

Constituents: 5% Trehalose, 95% PBS

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution It is recommended to reconstitute the lyophilized product in sterile deionized water to a final concentration of 1 mg/mL. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage.

General Info

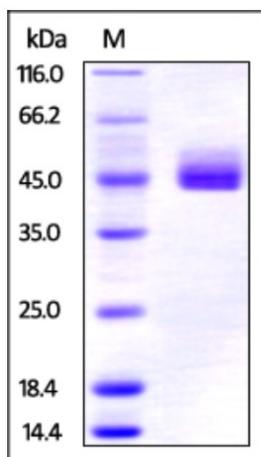
Function The CD3 complex mediates signal transduction.

Involvement in disease Defects in CD3D are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (T(-)/B(+)/NK(+)) SCID [MIM:608971]. A form of severe combined immunodeficiency (SCID), a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients present in infancy recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development.

Sequence similarities Contains 1 ITAM domain.

Cellular localization Membrane.

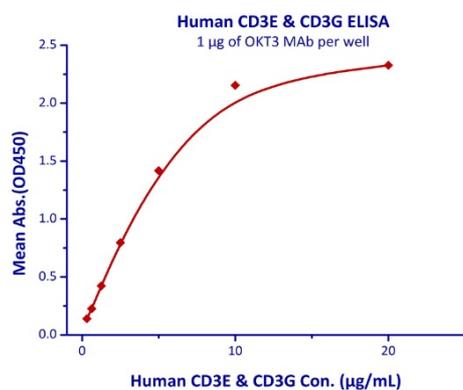
Images



SDS-PAGE - Recombinant human CD3 protein
(Active) (ab220577)

SDS-PAGE analysis of reduced ab220577 stained overnight with Coomassie Blue.

The protein migrates as 40-50 kDa under reducing conditions due to glycosylation.



Functional Studies - Recombinant human CD3 protein (Active) (ab220577)

Immobilized OKT3 MAb at 10 µg/mL (100 µL/well) can bind ab220577 with a linear range of 0.3-5 µg/mL.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you

- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors