

Product datasheet

Recombinant mouse CD40 protein (Fc Chimera)  
ab220449

2 Images

Description

<b>Product name</b>	Recombinant mouse CD40 protein (Fc Chimera)	
<b>Biological activity</b>	Measured by its binding ability in a functional ELISA. Immobilized ab220449 at 2 µg/mL (100 µL/well) can bind recombinant mouse TRAP/CD40L protein (Active) ( <a href="#">ab220551</a> ) with a linear range of 9-78 ng/mL.	
<b>Purity</b>	> 90 % SDS-PAGE.	
<b>Endotoxin level</b>	< 1.000 Eu/µg	
<b>Expression system</b>	HEK 293 cells	
<b>Accession</b>	<a href="#">P27512</a>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Mouse	
<b>Sequence</b>	VTCSDKQ YLHDGQCCDL CQPGSRLTSH CTALEKTQCH PCDSGEFSAQ WNREIRCHQH RHCEPNQGLR VKKEGTAESD TVCTCKEGQH CTSKDCEACA QHTPCIPGFG VMEMATETTD TVCHPCPVGF FSNQSSLFEK CYPWTSCEDK NLEVLQKGTS QTNVICGLKS RMR	
<b>Predicted molecular weight</b>	45 kDa including tags	
<b>Amino acids</b>	24 to 193	
<b>Tags</b>	Fc tag C-Terminus	
<b>Additional sequence information</b>	Fused with a human IgG1 Fc tag at the C-terminus.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab220449** in the following tested applications.

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

**Applications** Functional Studies

## SDS-PAGE

### Form

Lyophilized

### Additional notes

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## Preparation and Storage

### Stability and Storage

Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Please see notes section.

pH: 7.4

Constituents: 0.61% Tris, 0.75% Glycine, 3% Trehalose, Sodium chloride, L-Arginine

Note: 5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%.

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

### Reconstitution

Reconstitute with sterile deionized water to a concentration of 400 µg/ml.

## General Info

### Function

Receptor for TNFSF5/CD40LG.

### Tissue specificity

B-cells and in primary carcinomas.

### Involvement in disease

Defects in CD40 are the cause of hyper-IgM immunodeficiency syndrome type 3 (HIGM3) [MIM:606843]; also known as hyper-IgM syndrome 3. HIGM3 is an autosomal recessive disorder which includes an inability of B cells to undergo isotype switching, one of the final differentiation steps in the humoral immune system, an inability to mount an antibody-specific immune response, and a lack of germinal center formation.

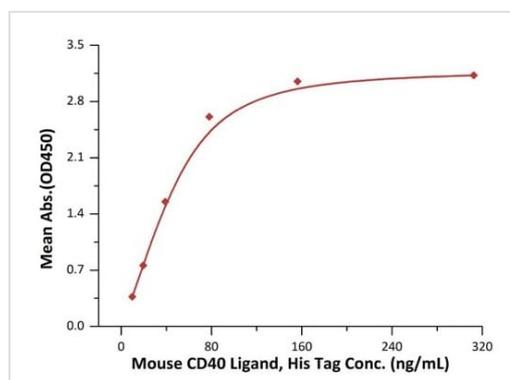
### Sequence similarities

Contains 4 TNFR-Cys repeats.

### Cellular localization

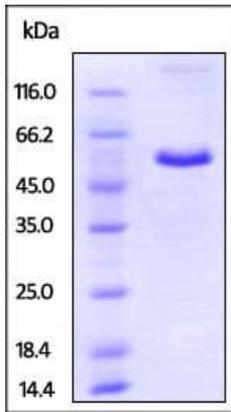
Secreted and Cell membrane.

## Images



Immobilized ab220449 at 2 µg/mL (100 µL/well) can bind recombinant mouse TRAP/CD40L protein (Active) ([ab220551](#)) with a linear range of 9-78 ng/mL.

Functional Studies - Recombinant mouse CD40 protein (Fc Chimera) ([ab220449](#))



SDS-PAGE - Recombinant mouse CD40 protein (Fc Chimera) (ab220449)

SDS-PAGE analysis of reduced ab220449 stained overnight with Coomassie Blue.

The reducing protein migrates as 57 kDa in SDS-PAGE due to glycosylation.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### 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