

Product datasheet

Recombinant mouse TRAP/CD40L protein (Fc Chimera Active) ab220586

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Description

Product name	Recombinant mouse TRAP/CD40L protein (Fc Chimera Active)	
Biological activity	Measured by its binding ability in a functional ELISA. Immobilized Mouse CD40, His Tag (ab220566) at 5 µg/mL (100 µL/well) can bind Recombinant mouse TRAP/CD40L protein (Fc Chimera Active) (ab220586) with a linear range of 1-16 ng/mL.	
Purity	> 95 % SDS-PAGE.	
Endotoxin level	< 1.000 Eu/µg	
Expression system	HEK 293 cells	
Accession	<u>P27548</u>	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Mouse	
Sequence	GDEDPQIAAHVVSEANSNAASVLQWAKKGYTMSNLVM LENGKQLTVKR EGLYYVTQVTFCSNREPSSQRPFIVGLWLKPSSGSERILL KAANTHSSS QLCEQQSVHLGGVFELQAGASVFNVTASQVIHRVGFSS SFGLLKL	
Predicted molecular weight	43 kDa including tags	
Amino acids	115 to 260	
Tags	Fc tag N-Terminus	
Additional sequence information	Fused with a human IgG1 Fc tag at the N-terminus.	

Specifications

Our **Abpromise guarantee** covers the use of **ab220586** in the following tested applications.

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

Applications SDS-PAGE

Functional Studies

Form Lyophilized

Additional notes After reconstitution this product is stable for 3 months at -80°C under sterile conditions.

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot. 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, 5% Trehalose, 0.44% L-Arginine, 0.87% Sodium chloride

Lyophilized from 0.22 µm filtered solution.

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 200 µg/ml.

General Info

Function Mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL-4. Involved in immunoglobulin class switching. Release of soluble CD40L from platelets is partially regulated by GP IIb/IIIa, actin polymerization, and an matrix metalloproteinases (MMP) inhibitor-sensitive pathway.

Tissue specificity Specifically expressed on activated CD4+ T-lymphocytes.

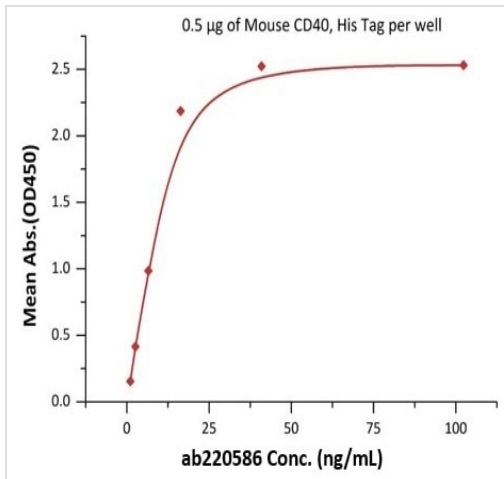
Involvement in disease Defects in CD40LG are the cause of X-linked immunodeficiency with hyper-IgM type 1 (HIGM1) [MIM:308230]; also known as X-linked hyper IgM syndrome (XHIM). HIGM1 is an immunoglobulin isotype switch defect characterized by elevated concentrations of serum IgM and decreased amounts of all other isotypes. Affected males present at an early age (usually within the first year of life) recurrent bacterial and opportunistic infections, including Pneumocystis carinii pneumonia and intractable diarrhea due to cryptosporidium infection. Despite substitution treatment with intravenous immunoglobulin, the overall prognosis is rather poor, with a death rate of about 10% before adolescence.

Sequence similarities Belongs to the tumor necrosis factor family.

Post-translational modifications The soluble form derives from the membrane form by proteolytic processing. N-linked glycan is a mixture of high mannose and complex type. Glycan structure does not influence binding affinity to CD40. Not O-glycosylated.

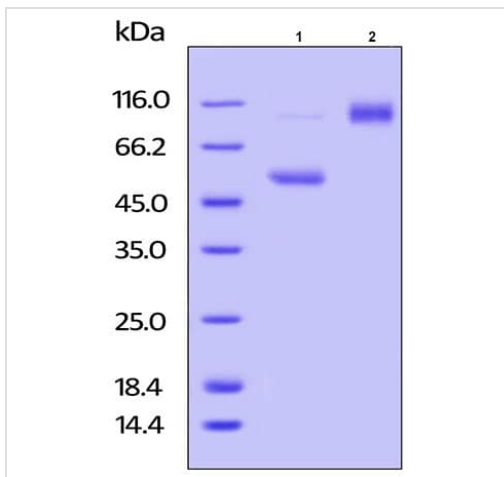
Cellular localization Secreted and Cell membrane.

Images



Immobilized Mouse CD40, His Tag (**ab220566**) at 5 µg/mL (100 µL/well) can bind Recombinant mouse TRAP/CD40L protein (Fc Chimera Active) (**ab220586**) with a linear range of 1-16 ng/mL.

Functional Studies - Recombinant mouse TRAP/CD40L protein (Fc Chimera Active) (**ab220586**)



SDS-PAGE analysis of **ab220586** stained overnight with Coomassie Blue.

Lane 1: Reducing conditions.

Lane 2: Non-reducing conditions.

As a result of glycosylation, the protein migrates as 52 kDa under reducing conditions and 90-116 kDa under non-reducing conditions on SDS-PAGE gel.

SDS-PAGE - Recombinant mouse TRAP/CD40L protein (Fc Chimera Active) (**ab220586**)

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

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