

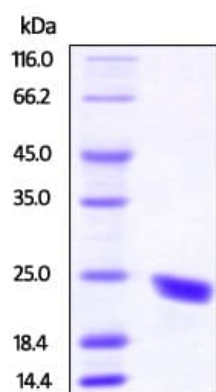
Recombinant mouse TRAP/CD40L protein (Active)
ab220551

1 References 3 Images

Description	
Product name	Recombinant mouse TRAP/CD40L protein (Active)
Biological activity	Measured by its binding ability in a functional ELISA against immobilized Mouse CD40, Fc Tag (0.2 µg/well). The linear range is 9-78 ng/ml.
Purity	> 95 % SDS-PAGE. >95% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
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	GDEDPQIAAHVVSEANSNAASVLQWAKKGYTMKSNLVM LENGKQLTVKR EGLYYVYTQVTFCSNREPSSQRPFIVGLWLKPSSGSERILL KAANTHSSS QLCEQQSVHLGGVFELQAGASVFVNVTEASQVIHRVGFS SFGLLKL
Predicted molecular weight	17 kDa including tags
Amino acids	115 to 260
Tags	His tag N-Terminus

Specifications	
Our <u>Abpromise guarantee</u> covers the use of ab220551 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 HPLC

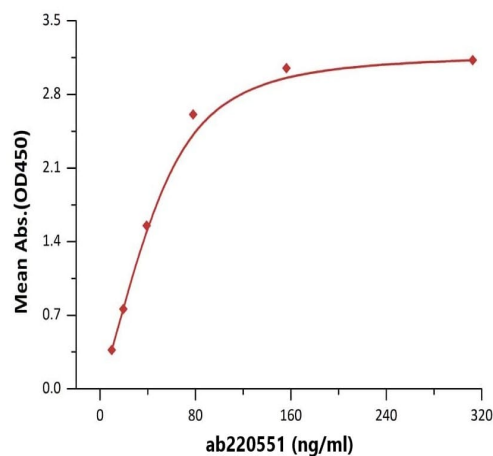
	ELISA
Form	Lyophilized
Additional notes	<p>This product is stable after storage at:</p> <p>-20°C to -70°C for 12 months in lyophilized state;</p> <p>-70°C for 3 months under sterile conditions after reconstitution.</p>
Preparation and Storage	
Stability and Storage	<p>Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Please see notes section.</p> <p>pH: 7.40</p> <p>Constituents: 95% PBS, 5% Trehalose</p> <p>Lyophilized from 0.22 µm filtered solution.</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
Reconstitution	Reconstitute with sterile deionized water to a concentration of 200 µg/ml.
General Info	
Function	<p>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.</p> <p>Release of soluble CD40L from platelets is partially regulated by GP IIb/IIIa, actin polymerization, and an matrix metalloproteinases (MMP) inhibitor-sensitive pathway.</p>
Tissue specificity	Specifically expressed on activated CD4+ T-lymphocytes.
Involvement in disease	<p>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.</p>
Sequence similarities	Belongs to the tumor necrosis factor family.
Post-translational modifications	<p>The soluble form derives from the membrane form by proteolytic processing.</p> <p>N-linked glycan is a mixture of high mannose and complex type. Glycan structure does not influence binding affinity to CD40.</p> <p>Not O-glycosylated.</p>
Cellular localization	Secreted and Cell membrane.
Images	



SDS-PAGE - Recombinant mouse TRAP/CD40L protein (Active) (ab220551)

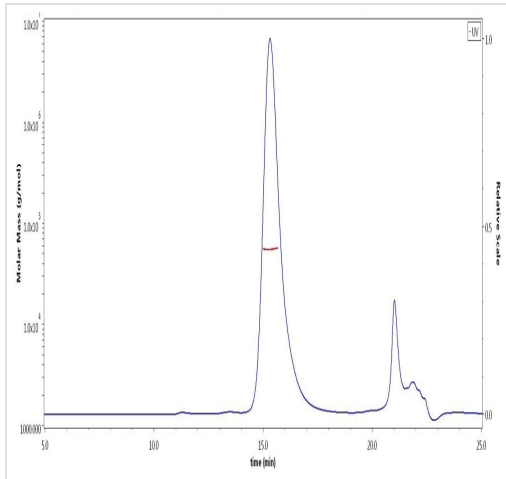
SDS-PAGE analysis of ab220551 stained overnight with Coomassie Blue.

The reduced protein migrates as 21-25 kDa in SDS-PAGE.



Functional Studies - Recombinant mouse TRAP/CD40L protein (Active) (ab220551)

Immobilized Mouse CD40, Fc Tag at 2 µg/ml (100 µl/well) can bind ab220551 with a linear range of 9-78 ng/ml.



HPLC - Recombinant mouse TRAP/CD40L protein
(Active) (ab220551)

A SEC-HPLC analysis showing over 95% of ab220551 present as active trimers with a molecular mass of around 50-65 kDa.

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

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