

Product datasheet

Recombinant Human TRAP/CD40L protein (Fc Chimera) ab214158

Description

Product name	Recombinant Human TRAP/CD40L protein (Fc Chimera)
Purity	>= 98 % SDS-PAGE.
Endotoxin level	< 0.060 Eu/μg
Expression system	CHO cells
Accession	<u>P29965</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYTMSNNL VTLENGKQLT VKRQGLYYIAQVTFCSNREASSQAPFIASLCLKSPGRFER ILLRAANTH SSAKPCGQQSIHLGGVFELQPGASVFNVTDPQVSHGT GFTSFGLLKL
Predicted molecular weight	16 kDa
Amino acids	113 to 261
Additional sequence information	Full length soluble protein fused to the N-terminus of the Fc region of Human IgG1 (NP_000065.1).

Specifications

Our **Abpromise guarantee** covers the use of **ab214158** 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
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term. Avoid freeze / thaw cycle. Constituent: 100% PBS Lyophilized from 0.2µm filtered solution.
Reconstitution	Reconstitute in 50µl sterile water. Add 1X PBS to the desired protein concentration.
<hr/> General Info <hr/>	
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.

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