

## Product datasheet

# Recombinant human TRAP/CD40L protein (Animal Free) ab217457

### Description

<b>Product name</b>	Recombinant human TRAP/CD40L protein (Animal Free)	
<b>Biological activity</b>	Determined by the dose-dependent stimulation of IL-8 production by human PBMC. The expected ED50 for this effect is 5-10 ng/ml. Note: Results may vary with PBMC donors.	
<b>Purity</b>	> 98 % SDS-PAGE. assessed also by HPLC	
<b>Expression system</b>	Escherichia coli	
<b>Accession</b>	<a href="#">P29965</a>	
<b>Protein length</b>	Full length protein	
<b>Animal free</b>	Yes	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	MQKGDQNPQI AAHVISEASS KTTSVLQWAE KGYTMSNNL VTLENGQLTVKRQGLYYAQVTFCSNREASSQAPFIASL WLKSPGRFE RILLRAANTHSSAKPCGQSQSIHLGGVFELQPGASVFNVT DPSQVSHGTG FTSFGLLKL	
<b>Predicted molecular weight</b>	16 kDa	
<b>Amino acids</b>	113 to 261	

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab217457** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE
	Functional Studies
	HPLC
<b>Form</b>	Lyophilized

### Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.  This product is an active protein and may elicit a biological response in vivo, handle with caution.
<b>Reconstitution</b>	Lyophilised from a sterile filtered solution. Centrifuge the vial prior to opening. Reconstitute in Water to a concentration of 0.1 - 1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20C to -80C

## General Info

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<b>Function</b>	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.
<b>Tissue specificity</b>	Specifically expressed on activated CD4+ T-lymphocytes.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the tumor necrosis factor family.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Secreted and Cell membrane.

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

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