

Product datasheet

Recombinant human TRAP/CD40L protein ab237557

1 Image

Description	
Product name	Recombinant human TRAP/CD40L protein
Biological activity	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by the dose-dependent stimulation of IL-8 production by human PBMC is less than 5-10 ng/ml.
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/μg
Expression system	Escherichia coli
Accession	<b><u>P29965</u></b>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYTMSNNL VTLENGKQLT VKRQGLYYIAQVTFCSNREASSQAPFIASLWLKSPGRFE RILLRAANTH SSAKPCGQQSIHLGGVFELQPGASVFVNVTDP SQVSHGT GFTSFGLLKL
Predicted molecular weight	16 kDa
Amino acids	113 to 261

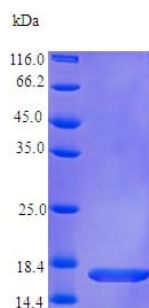
Specifications	
Our <b><u>Abpromise guarantee</u></b> covers the use of <b>ab237557</b> in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
Applications	Functional Studies SDS-PAGE
Form	Lyophilized

Preparation and Storage

<b>Stability and Storage</b>	<p>Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.</p> <p>Constituent: PBS</p> <p>0.2 µm filtered PBS</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
<b>Reconstitution</b>	<p>We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at = -20 °C. Further dilutions should be made in appropriate buffered solutions.</p>
<b>General Info</b>	
<b>Function</b>	<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>
<b>Tissue specificity</b>	Specifically expressed on activated CD4+ T-lymphocytes.
<b>Involvement in disease</b>	<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>
<b>Sequence similarities</b>	Belongs to the tumor necrosis factor family.
<b>Post-translational modifications</b>	<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>
<b>Cellular localization</b>	Secreted and Cell membrane.

## Images

ab237557 analyzed by SDS-PAGE.



SDS-PAGE - Recombinant human TRAP/CD40L  
protein (ab237557)

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

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