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Datasheet for ABIN2115473

LCP2 Protein (AA 1-533) (His tag,T7 tag)

Overview

Quantity:	50 µg
Target:	LCP2
Protein Characteristics:	AA 1-533
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LCP2 protein is labelled with His tag,T7 tag.

Product Details

Purpose:	Recombinant Human Lymphocyte Cytosolic Protein 2/LCP2 (C-6His, N-T7 tag)
Sequence:	<p>MASMTGGQQM GRGSMALRNV PFRSEVLGWD PDSLADYFKK LNYKDCEKAV KKYHIDGARF LNLTENDIQK FPKLRVPILS KLSQEINKNE ERRSIFTRKP QVPRFPEETE SHEEDNGGWS SFEEDDYESP NDDQDGEDDG DYESPNEEEE APVEDDADYE PPPSNDEEAL QNSILPAKPF PNSNSMYIDR PPSGKTPQQP PVPPQRPMAA LPPPPAGRNH SPLPPPQTNH EEPSSRSRHHK TAKLPAPSID RSTKPPLDRS LAPFDREPFT LGKKPPFSDK PSIPAGRSLG EHLPKIQKPP LPPTTERHER SSPLPGKKPP VPKHGWGPDR RENDEDDVHQ RPLPQPALLP MSSNTFPSRS TKPSPMNPLP SSHMPGAFSE SNSSFPQSAS LPPYFSQGGS NRPPIRAEGR NFPLPLPNKP RPPSPAEEEN SLNEEWVYSY ITRPEAEAAL RKINQDGTFL VRDSSKTTT NPYVLMVLYK DKVYNIQIRY QKESQVYLLG TGLRGKEDFL SVSDIIDYFR KMPLLLIDGK NRGSRVQCTL THAAGYPLEH HHHHH</p>
Characteristics:	Recombinant Human LCP2 is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Pro533) of Human LCP2 fused with a polyhistidine tag at the

Product Details

	C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	LCP2
Alternative Name:	Lymphocyte Cytosolic Protein 2/LCP2 (LCP2 Products)
Background:	<p>Lymphocyte cytosolic protein 2(LCP2)contains a SAM domain and a SH2 domain. It is highly expressed in spleen, thymus and peripheral blood leukocytes, T-cell and monocytic cell lines, but expressed at lower level in B-cell lines. LCP2 was originally identified as a substrate of the ZAP-70 protein tyrosine kinase following T cell receptor (TCR) ligation in the leukemic T cell line Jurkat. It is phosphorylated after T-cell receptor activation by ZAP70, ITK and TXK, which leads to the up-regulation of Th1 preferred cytokine IL-2 during post-translational modification.</p> <p>Studies using LCP2-deficient T cell lines or mice have provided strong evidence that SLP-76 plays a positive role in promoting T cell development and activation as well as mast cell and platelet function.</p> <p>Synonyms: Lymphocyte cytosolic protein 2,SH2 domain-containing leukocyte protein of 76 kDa,SLP-76 tyrosine phosphoprotein,SLP76,LCP2</p>
Molecular Weight:	62.6 kDa
UniProt:	Q13094
Pathways:	TCR Signaling , Fc-epsilon Receptor Signaling Pathway

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>

Handling

Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, 20 % glycerol, pH 8.5.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months