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## Datasheet for ABIN3130000 LAT2 Protein (AA 28-203) (His tag)



Overview	
Quantity:	1 mg
Target:	LAT2
Protein Characteristics:	AA 28-203
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LAT2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
Product Details	
Sequence:	HCSRPGVKRN EKIYEQRNRQ ENAQSSAAAQ TYSLARQVWP GPQMDTAPNK SFERKNKMLF
	SHLEGPESPR YQNFYKGSNQ EPDAAYVDPI PTNYYNWGCF QKPSEDDDSN SYENVLVCKP
	STPESGVEDF EDYQNSVSIH QWRESKRTMG APMSLSGSPD EEPDYVNGDV AAAENI
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Lat2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom

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	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three
	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate
	fractions are analyzed by SDS-PAGE.
	<ol><li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and</li></ol>
	Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	LAT2
Alternative Name:	Lat2 (LAT2 Products)
Background:	Involved in FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast
	cells. May also be involved in BCR (B-cell antigen receptor)-mediated signaling in B-cells and
	FCGR1 (high affinity immunoglobulin gamma Fc receptor I)-mediated signaling in myeloid cells
	Couples activation of these receptors and their associated kinases with distal intracellular

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Target Details		
	events through the recruitment of GRB2. {ECO:0000269 PubMed:15477348, ECO:0000269 PubMed:15477350, ECO:0000269 PubMed:15899851}.	
Molecular Weight:	20.9 kDa Including tag.	
UniProt:	Q9JHL0	
Pathways:	Fc-epsilon Receptor Signaling Pathway, BCR Signaling	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	