

## Product datasheet for **TP518203**

### Lpcat2 (NM\_173014) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse lysophosphatidylcholine acyltransferase 2 (Lpcat2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR218203 representing NM_173014 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MNRCAEAAVAATVPGSGVGDAGLRPPMVPRQASFFPPPVPNPFVQQTISASRRLQMFLGIIILLPVRA  
LLVGIILLLAWPFAVISTACCPEKLTHPISNWRKTRPALTFLARAMFFSMGFTVTVKGVASPLEAPI  
FVVAPHSTFFDGIACVAGLPSLVSRENNAQTPLVGRLLRALQPVLSRVDPDSRKNTINEIKKRATSGG  
EWPQILVFPEGTCTNRSLITFKPGAFIPGVPVQPVLLRYPNKLDVTWTWQGYTFLQLCVLTFQCQLFTK  
VEIEFMPVQAPSEEEKNDPVLFAIRIRNLMAEALIPVTDHTYEDCRLMISAGQLTLPMEAGLVEFSKIS  
RKLKLDWDGIRKHLDEYASIASSSKGGRIGIEEFAEYLKLPVSDVLRQLFALFDRNNDGSIDFREYVIGL  
AVLCNPANTEEIIQVAFKLFVDEDEGYITEEFCTILQASLGVPLNVSGLFREIAQRDSVSYEEFKSFA  
LKHPEYAKIFTTYLDLQVSLPPEEVQTAPSVASNKVSPESQEEGTSDDKKVD

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	60.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_766602</a></u>



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Locus ID:	270084
UniProt ID:	<a href="#">Q8BYI6</a>
RefSeq Size:	2800
Cytogenetics:	8 C5
RefSeq ORF:	1632
Synonyms:	A330042H22; Ayt11; Ayt11a; lpafat1
Summary:	<p>Possesses both acyltransferase and acetyltransferase activities (PubMed:17182612, PubMed:18156367). Activity is calcium-dependent (PubMed:17182612). Involved in platelet-activating factor (PAF) biosynthesis by catalyzing the conversion of the PAF precursor, 1-O-alkyl-sn-glycero-3-phosphocholine (lyso-PAF) into 1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine (PAF) (PubMed:17182612). Also converts lyso-PAF to 1-O-alkyl-2-acyl-sn-glycero-3-phosphocholine (PC), a major component of cell membranes and a PAF precursor (PubMed:17182612, PubMed:18156367). Under resting conditions, acyltransferase activity is preferred (PubMed:17182612). Upon acute inflammatory stimulus, acetyltransferase activity is enhanced and PAF synthesis increases (PubMed:17182612). Also catalyzes the conversion of 1-acyl-sn-glycero-3-phosphocholine to 1,2-diacyl-sn-glycero-3-phosphocholine. Involved in the regulation of lipid droplet number and size (By similarity).[UniProtKB/Swiss-Prot Function]</p>