

## Product datasheet for TP510449

### Pla2g4a (NM\_008869) Mouse Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse phospholipase A2, group IVA (cytosolic, calcium-dependent) (Pla2g4a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>MR210449 representing NM_008869 Red=Cloning site Green=Tags(s)
	<p>MSFIDPYQHIIVEHQYSHKFTVWVLRATKVTKGTFGDMLDTPDPYVELFISTTPDSRKRTRHFNNDINPV            WNETFEFILDPNQENVLEITLMDANYVMDDELGTATFPVSSMKVGEKKEVPFIFNQVTEMILEMSLEVCS            CPDLRFSMALCDQEKTRQQRKENIKENMKLLGPKKSEGLYSTRDVPVAILGSGGGFRAMVGFSGVMK            ALYESGILDCATYIAGLSGSTWYMSTLYSHPDFPEKGPEEINEELMKNVSHNPLLLLTPQVKRYVESLW            KKKSSGQPVTFTDIFGMLIGETLIQNRMSMTLSSLKEKVNAARCPLPLFTCLHVKPDVSELMFADWVEFS            PYEIGMAKYGTMAPDLFGSKFFMGTVVKYEEENPLHFLMGVWGSASFILFNRVLGVSGSQNKGSTMEEE            LENITAKHIVSNDSSDDEAQGPKGTENEEAEKEYQSDNQASWVHRMLMALVSDSALFNTREGRAGKVH            NFMLGLNLNTSYPLSPLRDFSSQDSFDDELDAAVADPDEFERIYEPLDVKSKKIHVWDSGLTFNLPYPLI            LRPQRGVDLIISFDFSARPSDTPPFKELLLAEKWAKMNKLPFPKIDPYVFDREGLKECYVFKPKNPDVE            KDCPTIIHFVLANINFRKYKAPGVLRETKEEKEIADFIDDPESPSTFNFQYPNQAFKRLHDLMYFNT            LNNIDVIKDAIVESIEYRRQNPSRCSVLSNVEARKFFNKEFLSKPTV</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
<b>Tag:</b>	C-MYC/DDK
<b>Predicted MW:</b>	85.7 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_032895</a>
<b>Locus ID:</b>	18783
<b>UniProt ID:</b>	<a href="#">P47713</a> , <a href="#">Q3UMQ1</a>
<b>RefSeq Size:</b>	2846
<b>Cytogenetics:</b>	1 63.51 cM
<b>RefSeq ORF:</b>	2244
<b>Synonyms:</b>	cP; cPL; cPLA2; cPLA2-alpha; cPLA2alpha; Pla; Pla2g4
<b>Summary:</b>	<p>The protein encoded by this gene is a member of the phospholipase A2 group IV family. This enzyme hydrolyzes membrane phospholipids, thereby releasing the polyunsaturated fatty acid, arachidonic acid. Arachidonic acid is further metabolized into eicosanoids such as leukotrienes, thromboxanes and prostaglandins, that play important roles in regulating diverse biological processes such as inflammatory responses, membrane and actin dynamics, and tumorigenesis. A rise in intracellular calcium levels results in binding of calcium to the C2 domain of this protein, and triggers the translocation from the cytosol to intracellular membranes, including the Golgi apparatus. Disruption of this gene in mice led to decreased levels of eicosanoids and platelet-activating factor, decreased allergic symptoms, and impaired reproductive ability in females. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2015]</p>