Datasheet for ABIN7554834

# PLA2G4B Protein (AA 1-781) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | PLA2G4B |
| Protein Characteristics: | AA 1-781 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PLA2G4B protein is labelled with His tag. |
| Application: | SDS-PAGE (SDS), Western Blotting (WB) |

## Product Details

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| Purpose: | Custom-made recombinat PLA2G4B Protein expressed in mammalien cells. |
| Sequence: | MAVAEVSRTC LLTVRVLQAH RLPSKDLVTP SDCYVTLWLP TACSHRLQTR TVKNSSSPVW NQSFHFRIHR QLKNVMELKV FDQDLVTGDD PVLSVLFDAG TLRAGEFRRE SFSLSPQGEG RLEVEFRLQS LADRGEWLVS NGVLVARELS CLHVQLEETG DQKSSEHRVQ LVVPGSCEGP QEASVGTGTF RFHCPACWEQ ELSIRLQDAP EEQLKAPLSA LPSGQVVRLV FPTSQEPLMR VELKKEAGLR ELAVRLGFGP CAEEQAFLSR RKQVVAAALR QALQLDGDLQ EDEIPVVAIM ATGGGIRAMT SLYGQLAGLK ELGLLDCVSY ITGASGSTWA LANLYEDPEW SQKDLAGPTE LLKTQVTKNK LGVLAPSQLQ RYRQELAERA RLGYPSCFTN LWALINEALL HDEPHDHKLS DQREALSHGQ NPLPIYCALN TKGQSLTTFE FGEWCEFSPY EVGFPKYGAF IPSELFGSEF FMGQLMKRLP ESRICFLEGI WSNLYAANLQ DSLYWASEPS QFWDRWVRNQ ANLDKEQVPL LKIEEPPSTA GRIAEFFTDL LTWRPLAQAT HNFLRGLHFH KDYFQHPHFS TWKATTLDGL PNQLTPSEPH LCLLDVGYLI NTSCLPLLQP TRDVDLILSL DYNLHGAFQQ LQLLGRFCQE |

## Product Details

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| | QGIPFPPISP SPEEQLQPRE CHTFSDPTCP GAPAVLHFPL VSDSFREYSA PGVRRTPEEA AAGEVNLSSS DSPYHYTKVT YSQEDVDKLL HLTHYNVCNN QEQLLEALRQ AVQRRRQRRP H **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.** |
| Characteristics: | Key Benefits:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalien cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. |
| Purity: | > 90 % as determined by Bis-Tris Page, Western Blot |
| Grade: | custom-made |

## Target Details

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| Target: | PLA2G4B |
| Alternative Name: | PLA2G4B (PLA2G4B Products) |
| Background: | Cytosolic phospholipase A2 beta (cPLA2-beta) (EC 3.1.1.4) (Lysophospholipase A1 group IVB) (EC 3.1.1.5) (Phospholipase A2 group IVB),FUNCTION: Calcium-dependent phospholipase A1 and A2 and lysophospholipase that may play a role in membrane phospholipid remodeling. {ECO:0000269\|PubMed:10085124, ECO:0000269\|PubMed:10358058, ECO:0000269\|PubMed:16617059}., FUNCTION: [Isoform 3]: Calcium-dependent phospholipase A2 and lysophospholipase. Cleaves the ester bond of the fatty acyl group attached to the sn-2 position of phosphatidylethanolamines, producing lysophospholipids that may be used in deacylation-reacylation cycles. Hydrolyzes lysophosphatidylcholines with low efficiency but is |

## Target Details

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| | inefficient toward phosphatidylcholines. {ECO:0000269\|PubMed:16617059}., FUNCTION: [Isoform 5]: Calcium-dependent phospholipase A1 and A2 and lysophospholipase. Cleaves the ester bond of the fatty acyl group attached to the sn-1 or sn-2 position of diacyl phospholipids (phospholipase A1 and A2 activity, respectively), producing lysophospholipids that may be used in deacylation-reacylation cycles. Can further hydrolyze lysophospholipids enabling complete deacylation. Has no activity toward alkylacyl phospholipids. {ECO:0000269\|PubMed:10085124, ECO:0000269\|PubMed:10358058, ECO:0000269\|PubMed:16617059}. |
| Molecular Weight: | 88.0 kDa |
| UniProt: | P0C869 |
| Pathways: | ER-Nucleus Signaling, VEGF Signaling |

## Application Details

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| 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 guarantee though. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | The buffer composition 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: | 12 months |