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online data

SUPPLEMENTARY ONLINE DATA

Differentiation of propeptide residues regulating the compartmentalization, maturation and activity of the broad-range phospholipase C of *Listeria monocytogenes*

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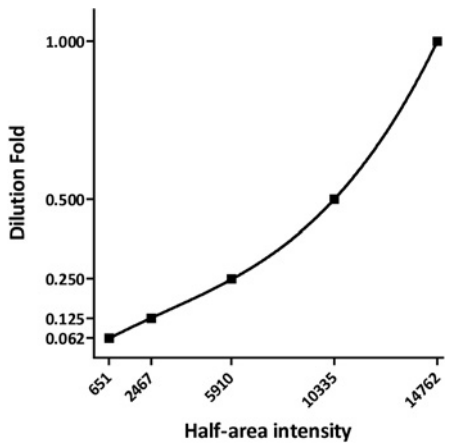

Figure S1 Regression curve of band intensity in function of protein concentration

PC-PLC was immunoprecipitated from pulse-labelled infected cells and 2-fold serial dilutions were resolved by SDS/PAGE. The autoradiograph was scanned with Image J. The half-area intensity was calculated for each lane and plotted as a function of the protein dilution fold. The curve follows a third-level exponential scale and the derived equation ($y = [2.897\times10^{-13}]x^3 - [2.68\times10^{-9}]x^2 + [4.176\times10^{-5}]x + 0.03561$) was used to normalize the experimental results obtained with the wild-type strain and the mutants.

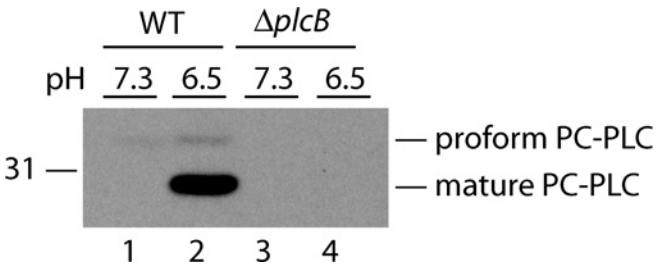

Figure S2 Compartmentalization and maturation of PC-PLC is regulated by pH in human epithelial HeLa cells

Infected HeLa cells were pulse-labelled with [^{35}S]methionine/cysteine, and bacterial protein synthesis was inhibited by the addition of chloramphenicol before chasing in nigericin-supplemented buffer at pH 7.3 or 6.5. Secreted PC-PLC was immunoprecipitated from host-cell lysates and detected by autoradiography. The position of a molecular-mass marker in kDa is indicated on the far left-hand side. Positions of the proform and mature form of PC-PLC are indicated on the far right-hand side. Lanes 1 and 2, cells were infected with strain HEL-1031 expressing wild-type (WT) PC-PLC; lanes 3 and 4, cells were infected with strain DP-L1935, which has a deletion in the gene encoding PC-PLC (Δ*plcB*).

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Table S1 Sequences of DNA oligonucleotide primers used in the present study

The underlined sequences represent XhoI and PstI restriction sites in Marq 512 and Marq 515 respectively.

Primer	Sequence (5′→3′)
Marq 512	CCCTCGAGTTAACAAATGTTAGAGAAAAATTAATTCT
Marq 513	CGTATCACGAGGAGGGAGTATAAGTGAATGATATGAAATTCAAAAATGTG
Marq 514	CACATTTTTGAATTTCATATCATTCACTTATACTCCCTCCTCGTGATACG
Marq 515	GGGCTGCAGTAAAATATATCCACCCGCTAACGA
Marq 516	GTAACGATAAAAGCAAATGCCGCAGCTGCTGAATACTTACAAACACCCGC
Marq 517	GCGGGTGTTTGTAAGTATTCAGCAGCTGCGGCATTTGCTTTTATCGTTAC
Marq 518	GCAAATGCCTGTTGTGATGCAGCTGCACAAACACCCGCAGCTCC
Marq 519	GGAGCTGCGGGTGTTTGTGCAGCTGCATCACAACAGGCATTTGC
Marq 520	GATGAATACTTAGCCGCAGCCGCAGCTCCGC
Marq 521	GCGGAGCTGCGGCTGCGGCTAAGTATTCATC
Marq 522	CGGTAACGATAAAAGCAAATGCCCATGATATTGACAGCAAATTACCTC
Marq 523	GAGGTAATTTGCTGTCAATATCATGGGCATTTGCTTTTATCGTTACCG
Marq 524	TTACAAACACCCGCAGCTCCTCATAAACTTAGTTGGTCCGCGG
Marq 525	CCGCGGACCAACTAAGTTTATGAGGAGCTGCGGGTGTTTGTAA
Marq 526	CTTACAAACACCCGCAGCTGCGGCTGCTATTGACAGCAAATTACC
Marq 527	GGTAATTTGCTGTCAATAGCAGCCGCAGCTGCGGGTGTTTGTAAG
Marq 528	CTTACAAACACCCCAACAACCGCATGATATTG
Marq 529	CAATATCATGCGGTTGTTGGGGTGTTTGTAAG
Marq 530	AGCTCCGCATGATGCTGCCGCCAAATTACCACAT
Marq 531	ATGTGGTAATTTGGCGGCAGCATCATGCGGAGCT
Marq 532	TGATATTGACAGCGCAGCAGCACATAAACTTAG
Marq 533	CTAAGTTTATGTGCTGCTGCGCTGTCAATATCA
Marq 534	CAGCAAATTACCAGCTGCACTTAGTTGGTCC
Marq 535	GGACCAACTAAGTGCAGCTGGTAATTTGCTG
Marq 536	ATTACCACATAAAGCTGCTTGGTCAGCGGATAA
Marq 537	TTATCCGCTGACCAAGCAGCTTTATGTGGTAAT
Marq 538	GATGAATACTTAAAACCACCCGCAGCTC
Marq 539	GAGCTGCGGGTGGTTTTAAGTATTCATC
Marq 549	CGGTAACGATAAAAGCAAATGCCCAAACACCCGCAGCTCCGCAT
Marq 550	ATGCGGAGCTGCGGGTGTTTGGGCATTTGCTTTTATCGTTACCG
Marq 551	AAATGCCTGTTGTGATGAATACTTACATGATATTGACAGCAAATTACCAC
Marq 552	GTGGTAATTTGCTGTCAATATCATGTAAGTATTCATCACAACAGGCATTT
Marq 553	GATAAAAGCAAATGCCTGTTGTGATGCAGCTCCGCATGATATTGACA
Marq 554	TGTCAATATCATGCGGAGCTGCATCACAACAGGCATTTGCTTTTATC
Marq 555	ATGCCTGTTGTGCTGCATACTTACAAAC
Marq 556	GTTTGTAAGTATGCAGCACAACAGGCAT
Marq 570	CGGTAACGATAAAAGCAAATGCCCCCGCAGCTCCGCATGATATT
Marq 571	AATATCATGCGGAGCTGCGGGGGCATTTGCTTTTATCGTTACCG
Marq 572	CGGTAACGATAAAAGCAAATGCCGCTCCGCATGATATTGACAGCA
Marq 573	TGCTGTCAATATCATGCGGAGCGGCATTTGCTTTTATCGTTACCG
Marq 574	GATGAATACTTACAAACACCCGCACTTAGTTGGTCCGCGGATAACC
Marq 575	GGTTATCCGCGGACCAACTAAGTGCGGGTGTTTGTAAGTATTCATC
Marq 576	CGGTAACGATAAAAGCAAATGCCATTGACAGCAAATTACCACATAAAC
Marq 577	GTTTATGTGGTAATTTGCTGTCAATGGCATTTGCTTTTATCGTTACCG
Marq 578	CGGTAACGATAAAAGCAAATGCCAGCAAATTACCACATAAACTTAGTTG
Marq 579	CAACTAAGTTTATGTGGTAATTTGCTGGCATTTGCTTTTATCGTTACCG
Marq 580	CGGTAACGATAAAAGCAAATGCCTTACCACATAAACTTAGTTGGTCC
Marq 581	GGACCAACTAAGTTTATGTGGTAAGGCATTTGCTTTTATCGTTACCG
Marq 582	CGGTAACGATAAAAGCAAATGCCTGGTCCGCGGATAACCCGAC
Marq 583	GTCGGGTTATCCGCGGACCAGGCATTTGCTTTTATCGTTACCG
Marq 595	ATAAAAGCAAATGCCTGTTGTGATGCATACTTACAAACACCCGCAGCTC
Marq 596	GAGCTGCGGGTGTTTGTAAGTATGCATCACAACAGGCATTTGCTTTTAT
Marq 597	TGCTGTCAATATCATGCGGAGCGGCATTTGCTTTTATCGTTACCG
Marq 598	GATGAATACTTACAAACACCCGCACTTAGTTGGTCCGCGGATAACC
Marq 599	GGTTATCCGCGGACCAACTAAGTGCGGGTGTTTGTAAGTATTCATC
Marq 600	CGGTAACGATAAAAGCAAATGCCATTGACAGCAAATTACCACATAAAC
Marq 601	GTTTATGTGGTAATTTGCTGTCAATGGCATTTGCTTTTATCGTTACCG
Marq 602	CGGTAACGATAAAAGCAAATGCCAGCAAATTACCACATAAACTTAGTTG

Table S1 Continued

Primer	Sequence (5′→3′)
Marq 603	GCAAATGCCTGTTGTGATGAATACGCACAAACACCCGCAGCTCCGCAT
Marq 604	ATGCGGAGCTGCGGGTGTTTGTGCGTATTCATCACAACAGGCATTTGC
Marq 609	CGGTAACGATAAAAGCAAATGCCAAACTTAGTTGGTCCGCGGATAA
Marq 610	TTATCCGCGGACCAACTAAGTTTGGCATTTGCTTTTATCGTTACCG
Marq 611	CGGTAACGATAAAAGCAAATGCCAGTTGGTCCGCGGATAACCCG
Marq 612	CGGGTTATCCGCGGACCAACTGGCATTTGCTTTTATCGTTACCG

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