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**Table SI. The comparison of AMP mRNA levels from AD L, AD NL, and healthy control skin samples**

Variable	Real-Time qPCR					
	AD NL vs HC skin		AD L vs HC skin		AD L vs AD NL skin	
	P-value	FC	P-value	FC	P-value	FC
DEFB1	0.0739	-1.26	<b>&lt;0.0001</b>	<b>-1.86</b>	<b>0.0224</b>	<b>-1.47</b>
DEFB4B	0.1537	10.36	<b>&lt;0.0001</b>	<b>329.45</b>	0.0573	31.78
DEFB103	>0.9999	-2.11	0.1545	-1.09	0.6866	1.92
DEFB104A	0.0713	21.57	<b>&lt;0.0001</b>	<b>558.1</b>	0.0914	25.87
CAMP	0.9738	1.34	0.256	2	>0.9999	1.48
PI3	0.6609	1.93	<b>0.0102</b>	<b>32.11</b>	0.3193	16.62
LYZ	0.3545	1.94	<b>0.0003</b>	<b>4.52</b>	0.0638	2.33
ANG	0.9483	-1.03	<b>0.0001</b>	<b>-2.11</b>	<b>0.0005</b>	<b>-2.04</b>
Rnase7	<b>0.0172</b>	<b>-4.63</b>	<b>0.0241</b>	<b>-3.6</b>	0.9697	1.29
SLPI	0.001	2.28	0.0599	1.57	0.5555	-1.15
CCL20	>0.9999	1.35	0.3701	2.1	0.5037	1.55
S100A7	0.6116	2.09	<b>&lt;0.0001</b>	<b>33.25</b>	<b>0.0142</b>	<b>15.88</b>
S100A8	0.9794	-4.31	<b>0.0012</b>	<b>16.81</b>	<b>0.001</b>	<b>72.65</b>
S100A9	>0.9999	-3.06	<b>0.0076</b>	<b>17.1</b>	<b>0.0004</b>	<b>52.41</b>
ADM	0.1089	-1.86	<b>0.0423</b>	<b>-2.22</b>	0.919	-1.19
LCN2	0.7495	1.5	<b>0.0009</b>	<b>3.83</b>	<b>0.0072</b>	<b>2.55</b>

Statistical analyses between mRNA levels were determined by one-way analysis of variance followed by Tukey's post hoc test in case of normal data distribution or Kruskal–Wallis test followed by Dunn's post hoc test when data distribution was not normal. The bold type indicates data with significant differences. Abbreviations: AD L: atopic dermatitis lesional skin; ADM: adrenomedullin; ANG: angiogenin; CAMP: cathelicidin antimicrobial peptide; CCL: chemokine (C-C motif) ligand; DEFB: defensin beta; FC: fold change; HC: healthy control; LCN: lipocalin; LYZ: lysozyme; NL: non lesional; qPCR: quantitative PCR; S100: S100 calcium-binding protein; SLPI: secretory leukocyte peptidase inhibitor

**Table SII. The comparison of AMP protein levels between AD L, AD NL, PsV L, and healthy control skin samples**

Variable	Epidermal IHC									
	AD NL vs HC skin		AD L vs HC skin		PsV L vs HC skin		AD L vs AD NL skin		PsV L vs AD L skin	
	P-value	FC	P-value	FC	P-value	FC	P-value	FC	P-value	FC
hBD1	0.7053	2.39	<b>0.0011</b>	<b>8.63</b>	<b>0.0013</b>	<b>10.08</b>	<b>0.0064</b>	<b>3.61</b>	0.7951	1.17
hBD2	>0.9999	1.36	<b>0.024</b>	<b>4.03</b>	<b>0.0064</b>	<b>7.5</b>	0.2691	2.95	0.5131	2.07
hBD3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
hBD4	0.9993	1.01	<b>0.0366</b>	<b>1.63</b>	<b>0.0216</b>	<b>1.8</b>	<b>0.0203</b>	<b>1.61</b>	0.7646	1.11
LL-37	<b>0.0072</b>	<b>-5.94</b>	0.0939	-5.71	<b>&lt;0.001</b>	<b>16.81</b>	>0.9999	1.04	<b>&lt;0.001</b>	<b>110.29</b>
PI3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LYZ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ANG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rnase7	0.9322	1.11	0.3353	1.44	0.1067	1.75	0.4895	1.3	0.9895	1.21
SLPI	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CCL20	0.1156	2.81	<b>&lt;0.0001</b>	<b>5.58</b>	<b>&lt;0.0001</b>	<b>11.38</b>	<b>0.0057</b>	<b>1.99</b>	<b>0.0022</b>	<b>2.04</b>
S100A7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S100A8	>0.9999	1.29	<b>0.0018</b>	<b>9.08</b>	<b>0.0039</b>	<b>9.36</b>	<b>0.0029</b>	<b>7.04</b>	>0.9999	1.03
S100A9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ADM	0.3323	-2.43	>0.9999	1.49	0.0698	4.9	0.1737	3.61	0.1320	3.29
LCN2	0.2255	1.87	<b>0.0018</b>	<b>3.08</b>	<b>0.0016</b>	<b>4.27</b>	0.6097	1.65	0.3166	1.39

Statistical analyses between protein levels were determined by one-way analysis of variance followed by Tukey's post hoc test in case of normal data distribution or Kruskal–Wallis test followed by Dunn's post hoc test when data distribution was not normal. The bold type indicates data with significant differences. Abbreviations: AD L: atopic dermatitis lesional skin; ADM: adrenomedullin; ANG: angiogenin; CAMP: cathelicidin antimicrobial peptide; CCL: chemokine (C-C motif) ligand; DEFB: defensin beta; FC: fold change; HC: healthy control; IHC: immunohistochemistry; LCN: lipocalin; LYZ: lysozyme; ND: not determined; NL: non lesional; PsV L: psoriasis vulgaris lesional; qPCR: quantitative PCR; S100: S100 calcium-binding protein; SLPI: secretory leukocyte peptidase inhibitor