

Table 1. Apical Proteins with Significantly Altered Expression in DA versus PBS

Primary Protein Name	Protein Description	Peptide Count	%CV QC	Fold Change DA versus PBS	t test Pvalue	t test Pvalue w/FDR Correction
KLK6_HUMAN	Kallikrein-related peptidase 6	4	6.7	7.0	0.004	0.068
ECM1_HUMAN	Extracellular matrix protein 1	7	19.9	6.8	0.010	0.089
H4_HUMAN	Histone cluster 4, H4	6	15.3	6.3	0.004	0.065
TRFE_HUMAN	Transferrin	11	17.2	4.7	0.002	0.054
H2B1M_HUMAN	Histone H2B type F-S	3	10.2	4.3	0.005	0.078
LAMA3_HUMAN	Laminin subunit α -3	13	18.4	4.0	0.007	0.080
DSC2_HUMAN	Desmocollin-2	2	15.3	3.9	0.003	0.065
DKK1_HUMAN	Dickkopf-related protein 1	2	9.5	3.6	0.002	0.054
H2AY_HUMAN	Core histone macro-H2A.1	4	6.2	3.3	0.011	0.091
CCD80_HUMAN	Coiled-coil domain-containing protein 80	2	2.2	3.0	0.001	0.054
FLNA_HUMAN	Filamin-A	12	14.3	2.8	0.008	0.085
LAMB3_HUMAN	Laminin subunit β -3	9	11.7	2.7	0.004	0.065
MMP9_HUMAN	Matrix metalloproteinase-9	8	14.6	2.7	0.000	0.054
PGBM_HUMAN	Basement membrane-specific heparan sulfate proteoglycan core protein	15	5.6	2.6	0.006	0.080
LEG1_HUMAN	Galectin-1	3	27.6	2.6	0.011	0.095
CEAM6_HUMAN	Carcinoembryonic antigen-related cell adhesion molecule 6	5	17.0	2.5	0.008	0.083
LAMC2_HUMAN	Laminin subunit γ -2	16	14.3	2.5	0.007	0.080
ST14_HUMAN	Suppressor of tumorigenicity 14 protein	2	7.6	2.3	0.010	0.086

Primary Protein Name	Protein Description	Peptide Count	%CV QC	Fold Change DA versus PBS	t test Pvalue	t test Pvalue w/FDR Correction
GDF15_HUMAN	Growth/differentiation factor 15	4	19.6	2.2	0.002	0.054
PSB5_HUMAN	Proteasome subunit- β type 5	3	9.0	2.2	0.013	0.098
MMP10_HUMAN	Stromelysin-2	3	18.5	2.1	0.009	0.086
LYPD3_HUMAN	Ly6/PLAUR domain-containing protein 3	5	4.8	2.1	0.000	0.016
APLP2_HUMAN	Amyloid-like protein 2	2	1.6	2.0	0.001	0.054
RSMN_HUMAN	Small nuclear ribonucleoprotein-associated protein N	2	17.9	2.0	0.006	0.078
EPS8_HUMAN	Epidermal growth factor receptor kinase substrate 8	7	29.5	2.0	0.012	0.097
TENA_HUMAN	Tenascin C	11	7.4	1.9	0.002	0.054
DSG2_HUMAN	Desmoglein-2	5	10.3	1.9	0.003	0.065
PEPD_HUMAN	Xaa-Pro dipeptidase	3	27.8	1.8	0.002	0.054
SSBP_HUMAN	Single-stranded DNA-binding protein mitochondrial	4	6.6	1.8	0.009	0.086
TIMP1_HUMAN	Metalloproteinase inhibitor 1	5	8.5	1.8	0.009	0.086
CSTN1_HUMAN	Calsyntenin-1	5	5.0	1.7	0.002	0.054
PSA3_HUMAN	Proteasome subunit- α type 3	3	7.4	1.6	0.010	0.086
ANXA8_HUMAN	Annexin A8	5	3.6	1.6	0.012	0.097
PSB6_HUMAN	Proteasome subunit- β type 6	3	10.9	1.6	0.012	0.097
PSA7_HUMAN	Proteasome subunit- α type 7	7	1.4	1.5	0.005	0.078
TKT_HUMAN	Transketolase	13	8.3	1.5	0.007	0.080
CD14_HUMAN	Monocyte differentiation antigen CD14	3	4.7	1.5	0.005	0.078

Primary Protein Name	Protein Description	Peptide Count	%CV QC	Fold Change DA versus PBS	t test Pvalue	t test Pvalue w/FDR Correction
CADH1_HUMAN	Cadherin-1	8	9.4	1.4	0.007	0.080
SPTN1_HUMAN	Spectrin α chain non-erythrocytic 1	25	3.1	1.4	0.013	0.098
PRDX1_HUMAN	Peroxiredoxin-1	14	3.3	1.3	0.009	0.086
SPTB2_HUMAN	Spectrin β chain brain 1	10	12.5	1.3	0.007	0.080
GNAI2_HUMAN	Guanine nucleotide-binding protein G(i) α -2 subunit	3	1.2	1.1	0.009	0.086
PSA_HUMAN	Puromycin-sensitive aminopeptidase	11	13.7	-1.1	0.003	0.065
DDB1_HUMAN	DNA damage-binding protein 1	8	4.2	-1.2	0.002	0.058
SLPI_HUMAN	Antileukoproteinase	7	3.3	-1.4	0.009	0.086
CBX3_HUMAN	Chromobox protein homolog 3	2	3.5	-1.5	0.001	0.054
GELS_HUMAN	Gelsolin	31	6.7	-1.5	0.006	0.078
HSP71_HUMAN	Heat shock 70 kDa protein 1	6	5.4	-1.6	0.004	0.065
FUBP1_HUMAN	Far upstream element-binding protein 1	3	10.4	-1.7	0.012	0.097
AL1A1_HUMAN	Retinal dehydrogenase 1	15	7.9	-1.7	0.001	0.054
THIL_HUMAN	Acetyl-CoA acetyltransferase mitochondrial	2	24.5	-1.8	0.006	0.078
CFAB_HUMAN	Complement factor B	26	21.6	-1.8	0.003	0.065
S10A4_HUMAN	Protein S100-A4	2	12.6	-1.8	0.003	0.065
PEDF_HUMAN	Pigment epithelium-derived factor	15	8.4	-2.1	0.012	0.097
CD59_HUMAN	CD59 glycoprotein	4	6.4	-2.2	0.001	0.054
PIGR_HUMAN	Polymeric immunoglobulin receptor	36	7.4	-2.3	0.007	0.080

Primary Protein Name	Protein Description	Peptide Count	%CV QC	Fold Change DA versus PBS	t test Pvalue	t test Pvalue w/FDR Correction
BPIA1_HUMAN	BPI fold-containing family A member 1	5	12.7	-2.4	0.007	0.080
PLTP_HUMAN	Phospholipid transfer protein	4	10.1	-2.6	0.002	0.054
FBLN3_HUMAN	EGF-containing fibulin-like extracellular matrix protein 1	14	12.1	-2.7	0.002	0.054
AACT_HUMAN	α -1-antichymotrypsin	7	20.0	-3.4	0.004	0.065
MANBA_HUMAN	β -mannosidase	4	17.0	-3.4	0.006	0.078
B2MG_HUMAN	β -2-microglobulin	6	25.5	-3.5	0.001	0.054
NUCB2_HUMAN	Nucleobindin-2	5	19.5	-3.9	0.006	0.078
IBP7_HUMAN	Insulin-like growth factor-binding protein 7	10	10.6	-3.9	0.013	0.098
A1AT_HUMAN	α -1-antitrypsin	7	6.9	-5.6	0.001	0.054
CEL_HUMAN	Bile salt-activated lipase	5	15.5	-5.6	0.002	0.056
CYTM_HUMAN	Cystatin-M	3	15.5	-5.9	0.001	0.054
IBP2_HUMAN	Insulin-like growth factor-binding protein 2	11	6.3	-6.5	0.005	0.078
CLUS_HUMAN	Clusterin	9	4.6	-11.0	0.001	0.054
ISK5_HUMAN	Serine protease inhibitor Kazal-type 5	2	8.6	-11.9	0.008	0.086
CO4A_HUMAN	Complement C4-A	5	7.4	-14.8	0.002	0.057
CDHR3_HUMAN	Cadherin-related family member 3	3	5.3	-20.7	0.002	0.056

Definition of abbreviations: BPI, bactericidal permeability-increasing protein; CV, coefficient of variation; DA, diacetyl; EGF, epidermal growth factor; FDR, false discovery rate; PLAUR, urokinase plasminogen activator surface receptor; QC, quality control.