

Appendix

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Appendix Table S1. List of antibodies for immunocytochemistry and Western blot

Protein	Manufacture	Catalog number
4E-BP1	Cell Signaling	9644
Phospho-4E-BP1 (T37/T46)	Cell Signaling	2855
AMPK	Cell Signaling	5831
Phospho-AMPK (T172)	Cell Signaling	2535
Akt	Cell Signaling	9272
Phospho-Akt (Ser473)	Cell Signaling	4058
Calnexin	BD Biosciences	610523
Desmoglein1	Santa Cruz	SC-20114
Erk1/2	Cell Signaling	9102
Phospho-Erk1/1(T202/Y204)	Cell Signaling	9101
GAPDH	Abcam	ab8245
HDAC2	Abcam	ab7029
Involucrin	gift from Dr. F. Watt	SY-5
Keratin5	Abcam	ab24647
TGM1	gift from Dr. F. Watt	BC1
Keratin14	Covance	PRB155P
LEKTI	Zymed	39-0500
mTOR	Sigma-aldrich	T2949
Phospho-mTOR (Ser2448)	Biosource	44-1125G
S6K1	Cell Signaling	9202
Phospho-S6K1 (Thr389)	Cell Signaling	9206
S6	Cell Signaling	2217
Phospho-S6 (Ser235/236)	Cell Signaling	4858
RAPTOR	Abcam	ab26264
RICTOR	Abcam	ab32892
TRPV3	Abcam	ab32734
α -Tubulin	Sigma-aldrich	T6199

Appendix Table S2. List of primers used for quantitative PCR

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
<i>BNC1</i>	GGAGCAGAGACAGACAC	CTGCCCATTTCGACTTG
<i>IVL</i>	AGGTCCAAGACATTCAAC	CCCTTGTATGAGACGAT
<i>KRT1</i>	GCCCTACTTTGAGTCAT	GTCGAGACTGCGGTTG
<i>KRT10</i>	TCAGATCGACAATGCC	ACCAGTGGACACATTT
<i>KRT14</i>	CTCCGCACCAAGTAT	ATACTGGTCACGCATC
<i>S6K1</i>	ATTTATTGGCAGCCACGAACACC	TCCACAGGTGTCTGAGGATTTGCT
<i>SPINK5</i>	CAAGATGGAAGACTCGG	CACTCCTCACTTGGTT
<i>TBP1</i>	ATAATCCCAAGCGGTT	ATAATCCCAAGCGGTT
<i>TRPV1</i>	TTCTTCCAGTGTCTGCCTGA	CATCATCAACGAAGACCCG
<i>TRPV2</i>	CGAAGCCGAAAAGGAAGAC	TCCAGCACACAGGCATCTAC
<i>TRPV3</i>	GCTTGGAGAAGACAGGAGGA	GAGATCACCCCCACAAAGAA
<i>TRPV4</i>	TGAAGACTTTGAGGATGGGG	CGTCACCACTCCAGTGACAA
<i>TRPM4</i>	TTCCCCTGGACTACAACACTACTC	TCTCTATTTCGCGTCAACATCTTC
<i>TRPM5</i>	AGCATTTCTCTTGGGAGGACA	GCTCGAAGTCATACACGGTGA
<i>TRPM8</i>	GTGAAAGCGACTTGGTGAATTTT	GTGGCCTTGGAATCTTTGGTAA
<i>TRPA1</i>	CCAGGGCGTTGTCTATGAGG	CCAGGGCGTTGTCTATGAGG

Appendix Table S3. TaqMan probes for real-time quantitative PCR

Gene name	Catalog number
<i>BNC1</i>	Hs00231074_m1
<i>KRT5</i>	Hs00361185_m1
<i>KRT14</i>	Hs00265033_m1
<i>KRT1</i>	Hs00196158_m1
<i>KRT10</i>	Hs00166289_m1
<i>DSG1</i>	Hs00355084_m1
<i>FLG</i>	Hs00856927_g1
<i>TGM1</i>	Hs00165929_m1
<i>IVL</i>	Hs00846307_s1
<i>SPINK5</i>	Hs00928570_m1
<i>GAPDH</i>	Hs02786624_g1