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| Supplementary Tuble 1. East of antioodies abed in western oforming. | | | | |
|---|---------------------------------------|----------|--|--|
| Antibody name | Company | Dilution | | |
| Anti-Akt | Santa Cruz Biotechnology (sc-5298) | 1:1000 | | |
| Anti-Cofilin | Santa Cruz Biotechnology (sc-33779) | 1:1000 | | |
| Anti-phospho Cofilin (ser3) | Santa Cruz Biotechnology (sc-21867-R) | 1:1000 | | |
| Anti-Cyclin D1 | Santa Cruz Biotechnology (sc-20044) | 1:200 | | |
| Anti-E-cadherin | Santa Cruz Biotechnology (sc-71009) | 1:1000 | | |
| Anti-phospho-GSK3β | Santa Cruz Biotechnology (sc-11757) | 1:500 | | |
| Anti-N-cadherin | Santa Cruz Biotechnology (sc-59987) | 1:1000 | | |
| Anti-Slug | Santa Cruz Biotechnology (sc-166902) | 1:500 | | |
| Anti-Vimentin | Santa Cruz Biotechnology (sc-7558) | 1:500 | | |
| Anti-Zeb1 | Santa Cruz Biotechnology (sc-25388) | 1:500 | | |
| Anti-a Tubulin | Santa Cruz Biotechnology (sc-23948) | 1:2000 | | |
| Anti-β Catenin | Santa Cruz Biotechnology (sc-1496) | 1:1000 | | |
| Anti-Bcl2 | Cell Signaling (4223) | 1:1000 | | |
| Anti-GSK3β | Cell Signaling (12456) | 1:1000 | | |
| Anti-pospho-Akt (ser473) | Cell Signaling (4051) | 1:1000 | | |
| Anti-p44/42 MAPK (Erk 1/2) | Cell Signaling (4695) | 1:2000 | | |
| Anti-phospho-p44/42 MAPK (Erk 1/2) (thr202/tyr204) | Cell Signaling (4370) | 1:2000 | | |
| Anti-phospho-GSK3 (tyr279/tyr216) | Millipore (05-413) | 1:500 | | |

Supplementary Table 1. List of antibodies used in western blotting.

| Gene | Accession number (NCBI) | Primer 5'-3' | bp |
|----------|----------------------------|---|-----|
| CDH2 | NM_001792.4 | N-cad F: CAGGAAAAGTGGCAAGTGGC N-cad R: AGGAAAAGGTCCCCTGGAG | 197 |
| VIM | NM_003380.3 | VIM F: TGGCCGACGCCATCAACACC VIM R: CACCTCGACGCGGGCTTTGT | 227 |
| ZEB1 | NM_001174096.1 | ZEB1 F: GGCCCCAGGTGTAAGCGCAG ZEB1 R: CTGTTGGCAGGTCATCCTC | 181 |
| ZEB2 | NM_014795.3 | ZEB2 F: AAGCCAGGGACAGATCAGC ZEB2 R: GCAGTTTGGGCACTCGTAAG | 156 |
| SLUG | NM_003068.4 | Slug F: CAACGCCTCCAAAAAGCCAA Slug R: ACTCACTCGCCCCAAAGATG | 229 |
| NRF1 | NM_005011.3 | NRF F: CCGTTGCCCAAGTGAATTAT NRF R: ACTGTAGCTCCCTGCTGCAT | 181 |
| PPARGCIA | NM_013261.3 | PGC1aF: GCTGACAGATGGAGACGTGA PGC1aR: TGCATGGTTCTGGGTACTGA | 178 |
| SIRTI | NM_001142498.1 | sirt F: TGTTGGTTCTAGTACTGGGG sirt R: CCTCAGCGCCATGGAAAATG | 164 |
| TFAM | NM_001270782.1 | Tfam F: CCGAGGTGGTTTTCATCTGT Tfam R: ACGCTGGGCAATTCTTCTAA | 147 |
| Rplp0 | NM_001697.2 | 36B4 F: TCGACAATGGCAGCATCTAC 36B4 R: ATCCGTCTCCACAGACAAGG | 191 |

Supplementary Table 2. Oligonucleotides used for Real time PCR analysis.

Supplementary Figure Legends

Supplementary Figure 1. Chemical structures of resveratrol analogues. They belong to two distinct classes of bis-arylated imidazoles: 1,5-diaryl substituted imidazoles (Res_04, Res_08, Res_10, Res_15, Res_18), and 2,5-diaryl substituted 1-methylimidazoles (Res_09, Res_11, Res_12, Res_13, Res_14, Res_19).

Supplementary Figure 2. Resveratrol analogues effects on NHDF cell proliferation. Cells were treated with resveratrol or analogues at 25 μ M for 72 h and 96 h. Data shown represent the mean \pm SD of three independent experiments and values were taken from at least six wells from each experiment.

Supplementary Figure 3. Densitometric analysis of western blotting data. Results (mean \pm SD; n = 3) are expressed as fold change of CTR values, and represent the ratio between N-cadherin, Cyclin D1, β -catenin, Bcl2, and α -tubulin levels. pCof, pErk, pGsk, and pAkt were normalised over total Cof, Erk, Gsk, Akt. Data were analyzed by Student's t-test. * p<0.05; ** p<0.01; *** p<0.001 as compared with resveratrol treated cells.

Supplementary Figure 4. qPCR analysis on the expression of resveratrol targets in SKOV-3 cells treated for 24 h with Res and Res_15 at the concentration of 100 uM and 25 uM, respectively. Data are represented as mean \pm SD of three independent experiments. The only asterisks indicate a significant difference compared to control, whereas asterisks above a line represent a significant difference between resveratrol and Res_15 treated samples. One-way ANOVA analysis * p<0.05; ** p<0.01; *** p<0.001.











