Supplementary informations

**Recombinant TAT-Thymosin β-4 promotes angiogenesis by activating VEGFR2 Signaling pathway**

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**Original Images of Western blotting**

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| Figure 4a  t-VEGFR2  Primary antibody – Sigma, Cat# SAB4501645  Titer – 1:1000 in 3% TBST |  |
| Figure 4a  p-VEGFR2  Primary antibody – Merk, Cat# PS1013  Titer – 1:1000 in 3% TBST |  |

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| Figure 4a  Ang1. Primary antibody  Millipore, Cat# AB3120  Titer – 1:1000 in 3% TBST  Ang2. Primary antibody  Millipore, Cat# AB3121  Titer – 1:1000 in 3% TBST |  |
| Figure 4a  Beta actin  Primary antibody – Sigma, Cat# A5441  Titer – 1:5000 in 3% TBST |  |
| Figure 5a  VEGFa  Primary antibody – Santacruz, Cat# sc7269  Titer – 1:1000 in 3% TBST |  |

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| Figure 5a  Ponceau S staining  Standard for cell culture media protein because cell culture media contains no beta actin |  |
| Figure 5b  VEGFa  Primary antibody – Santacruz, Cat# sc7269  Titer – 1:1000 in 3% TBST |  |
| Figure 5b  p-VEGFR2  Primary antibody – Merk, Cat# PS1013  Titer – 1:1000 in 3% TBST |  |

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| Figure 5b  t-VEGFR2  Primary antibody – Sigma, Cat# SAB4501645  Titer – 1:1000 in 3% TBST |  |
| Figure 5b  p-AKT  Primary antibody – CST, Cat# 9272  Titer – 1:1000 in 3% TBST |  |
| Figure 5b  p-AKT  Primary antibody – CST, Cat# 9271  Titer – 1:1000 in 3% TBST |  |

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| Figure 5b  p-ERK  Primary antibody – CST, Cat# 9102  Titer – 1:1000 in 3% TBST |  |
| Figure 5b  t-ERK  Primary antibody – CST, Cat# 9101  Titer – 1:1000 in 3% TBST |  |
| Figure 5b  CD31  Primary antibody – abcam, Cat# ab28364  Titer – 1:1000 in 3% TBST |  |

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| Figure 5b  Beta actin  Primary antibody – Sigma, Cat# A5441  Titer – 1:5000 in 3% TBST |  |
| Figure 6a  Apoptosis Western blot Cocktail  (Cleaved PARP, beta actin, procaspase3, cleaved caspase3)  Primary antibody – abcam, Cat# ab136812  Titer – 1:1000 in 3% TBST |  |