**Figure S1.** siRNA knockdown of p65 in HEK293 cells.
Figure S2. Functional analysis of miR-517a/c in primary HUVECs. (A-C) Expression of NF-KB targets IL8, IL6 and TNF in HUVECs transfected with the indicated miRNAs and siRNAs. (D) Western blot of cytoplasmic and nuclear extracts from miR-517a/c transfected HUVECS showing increased p65 in the nucleus. Lamin A/C and Tubulin are nuclear and cytoplasmic loading controls, respectively. n = 4 for A-C. * p <= 0.05. NA = no amplification.
**Figure S3.** TNIP1 overexpression in HEK293 cells. TNIP1 construct lacking the miR-517a/c binding site was transfected into HEK293 cells along with miR-517a/c as indicated.
Figure S4. TNF time course treatment in HEK293 cells. HEK293 cells were treated with 40ng/mL of TNF for the indicated times and the expression of miR-517a/c, TNIP1, IL8 and TNF were measured via qPCR. y-axis is in log scale. n=4, *p<=0.05, ** p<=0.01, ***p <= 0.001
Figure S5. miR-517a/c-induced apoptosis in HUVECs. (A) Microscope images of HUVECs transfected with miR-517a/c. (B) Caspase3/7 activity was measured in HUVECs transfected with miR-517a/c with the Caspase-Glo 3/7 luminescence assay. (C) Western blot analysis of nuclear extracts from HUVECs transfected with miR-517a/c. Cleavage of PARP is evident by the lower molecular weight fragment and is indicative of caspase3 activity. Lamin A/C was the loading control. n=3 (B), *p<= 0.05.