Supplemental Figure S1.

Effects of 3MA on HOG-LDL-induced Müller cell autophagy. Cells were pre-treated with 3MA (5mM) for 1h before treatment with HOG-LDL (200mg/L) for 24h.
Efficacy of si-ATG5 (A) and siBeclin-1 (B). Cells were transfected with siRNA 36h prior to treatment with HOG-LDL for 24h.
The protective role of berberine on 4-HNE-induced Müller cell death and dysfunction. Müller cells were treated by 4-HNE (40µM) for 6h, with/without berberine (5µM, or as indicated in the Figure) pre-treatment for 1h. (A) Cell viability expressed as percentage vs. no treatment control (mean ± SD; n=3). (B) ATG-5, Beclin-1 and LC3 II. (C) Cleaved PARP and active caspase-3. (D) Nox4, Nrf2 and Gpx-1. (E) VEGF. (F) GFAP. (G) iNOS and ICAM-1. All were detected by Western blot and all experiments were repeated x3.