Figure S1. Validation of the sheep anti GPR179 CT antibody.

A. Schematic representation of GPR179 sequence features. Gray boxes indicate the positions of the 7 transmembrane domains (7TMD), the conserved domains (CD1 and CD2) encompassing the epitope recognized by the sheep GPR179 CT antibody, and the myc sequence fused at the very C-terminus of GPR179. B, Western blotting for GPR179 following its expression in HEK293T/17. The cells were transfected with the indicated constructs. The sheep anti GPR179 CT antibody recognized the full-length GPR179 but not a truncated mutant of GPR179 lacking the C-terminal domain with predicted epitope sequence. The same proteins were recognized at the predicted molecular weights by the anti myc antibody, the epitope for which is present on both constructs. C, Detection of GST fusions of the recombinant proteins containing epitope sequences by Western blotting. Proteins containing conserved domains from GPR179 but not GST alone are specifically recognized at the predicted molecular weight by the anti GPR179 CT antibody. Western blotting with anti GST antibody detected the presence of the bait proteins and served as a loading control. Purified proteins: GST (26.3 kDa), GST-CD1 (human GPR179 aa 1413-1504; 36.1 kDa), GST-CD2 (human GPR179 aa 1943-2047; 37.7 kDa). D, Western Blot analysis of GPR179 in retina samples from WT and nob5 mice using the sheep anti GPR179 CT antibody.