Supplementary Material

**Activation of endogenously expressed ion channels by active complement in the retinal pigment epithelium**

Andreas Genewsky1,2, Ingo Mar Jost2, Julia Stindl2, Christine Skerka3, Peter F. Zipfel1,4, Bärbel Rohrer5, Olaf Strauß1,6

1Max-Planck Institute of Psychiatry, Munich, Germany
2Experimental Ophthalmology, Eye Clinic, University Medical Center Regensburg, Regensburg, Germany.
3Department of Infection Biology, Leibniz Institute for Natural Product Research and Infection Biology, Jena, Germany.
4Friedrich Schiller University, Jena, Germany
5Department of Ophthalmology, Medical University of South Carolina, Charleston, SC 29425 USA; and Research Service, Ralph H. Johnson VA Medical Center, Charleston, SC 29401 USA.
6Experimental Ophthalmology, Department of Ophthalmology, Charité University Medicine Berlin, Berlin, Germany

Corresponding Author: Olaf Strauß; Prof. PhD Experimental Ophthalmology
Charité University Medicine Berlin
Campus Virchow-Klinikum
Augustenburger Platz 11 13355 Berlin
Germany
Tel.: +49 30 450654359
Fax: +49 30 45055409
Mail: olaf.strauss@charite.de

Supplementary Figure 1: Basic cell properties before and after current clamp recordings

Left panel: Holding current in pA (voltage clamp mode at -40 mV), BEF=before CC recordings, AFT=after CC recordings. Right panel: Membrane resistance in giga ohms. (Data is given as mean values ± SEM from n = 5)

Supplementary Figure 2: Single Channel Current at different Pipette Potentials

Single channel amplitudes plotted against different pipette potentials before, 1min after and 3 min after NHS application. (Data is given as mean values ± SEM from n = 5; significance is indicated as * = p < 0.05 compared to both, before and 3 min after NHS). Black filled squares = before NHS, grey rhombs = during NHS, light grey circles = after NHS.