

Supplementary Table 1. Primary and secondary antibodies used for immunohistochemistry

Primary antibodies		
Cell type	Host/Antibody	Supplier/Catalogue number
Rod bipolar	Mouse/PKC α	SCBT/sc-8393
Cone bipolar	Rabbit/Secretagoin	Cellsignaling/ 14037
Amacrine subset	Sheep/Choline acetyltransferase (CHAT)	Millipore/ AB1582
Muller cell activation and astrocytes	Goat/Glial Fibrillary Acidic Protein (GFAP)	SCBT/SC-6170
Microglia	Rabbit/IBA 1	WAKO/ 019-19741
Secondary antibodies		
Host/Reactivity	Fluorophore	Supplier/Catalogue number
Donkey/Rabbit	AF488	Thermofisher/ A-21206
Donkey/Mouse	CY3	Jackson lab/ 715-165-150
Donkey/Goat	AF594	Thermofisher/ A-11058
Donkey/Sheep	AF647	Thermofisher/ A-21448

Supplementary Table 2. Absolute voxel values for the quantification of INL DAPI in non-implanted control animals, planar implants, 20 and 40 μm honeycombs inside and outside the wells.

Control	Planar	40 μm		20 μm	
		<i>Inside well</i>	<i>Outside well</i>	<i>Inside well</i>	<i>Outside well</i>
384712078	404305663	240001792	127827319	125339879	163692852
309708493	245186308	152146235	60423724	92411087	123446776
347210285	396399634	219944258	79708684	114239867	86036599
	261904841	155093883	98668824	87520829	234021590
	326949111	191796542	91657137	104877915	151799454