

Supplementary Table 1. Antibodies used in the current study

Antibody	Company	Name and Catalogue Numbers	Source	Concentration ($\mu\text{g}/\mu\text{l}$)	Epitope Mapping	Applications in current study	Results
Anti-IL6R α	Santa Cruz	M-20, sc-660	rabbit polyclonal IgG	0.2	C-terminus of mouse IL6R α	IF, WB	IL6R α is undetectable in retina
		D-8, sc-374259	mouse monoclonal IgG1	0.2	amino acids 433-460 at the C-terminus of mouse IL6R α		
	R&D Systems	AF1830	goat polyclonal IgG	0.362-1, original concentration of different lot numbers	amino acids 20-357 of mouse myeloma cell line NS0-derived recombinant IL6R α	IF, WB, Neutralization	IL6R α is undetectable in retina; failed to prevent CD11b+ monocytes after RD by intravitreal injection
	LifeSpan BioSciences	extracellular domain, LS-C70920	rat monoclonal IgG1	0.5	amino acids 20-357 of mouse myeloma cell line NS0-derived recombinant IL6R α	WB	IL6R α is undetectable in retina, but positive in lysates of liver
Anti-gp130	R&D Systems	MAB4682	rat monoclonal IgG1	0.362-1, original concentration of different lot numbers	amino acids 23-617 of mouse myeloma cell line NS0-derived recombinant gp130	Neutralization	Anti-gp130 treatment decreased retinal CCL2 level, number of CD11b+ monocytes, as well as inhibited Erk1/2 expression and stimulated STAT3 upregulation in aqueous humor/vitreous samples
	EMD Millipore	06-291	rabbit polyclonal IgG	1	amino acids 713-918	WB	gp130 protein is detected in retina and aqueous humor/vitreous with double bands
	Cell signaling Technology	37325	rabbit polyclonal	100 μl	endogenous levels of total GP130 protein independent of phosphorylation	WB	
	Santa Cruz	M-20, sc-656	rabbit polyclonal IgG	0.2	C-terminus of mouse gp130 origin	WB, IF	double bands observed on western blot; in immunofluorescence staining, gp130 expression was initially confined to outer nuclear layer of normal retina, and extended into the inner nuclear layer and monocytes in vitreous humor after RD
IgG1 isotype control	R&D Systems	MAB002	monoclonal mouse IgG1 isotype control	1	N/A	Flow cytometry, IF	IgG1 isotype control showed more CD11b+ monocytes recruited into retina compared with gp130 blocking one day after RD.

IF: Immunofluorescence

RD: retinal detachment

WB: western blot