

## *Supplementary Material*

### **Activation of the GABA-alpha Receptor by Berberine Rescues Retinal Ganglion Cells to Attenuate Experimental Diabetic Retinopathy**

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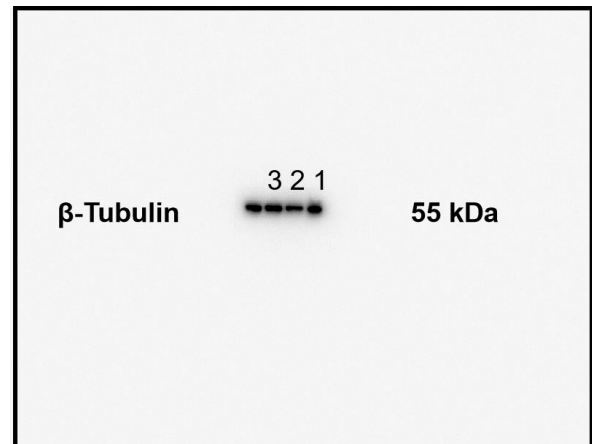
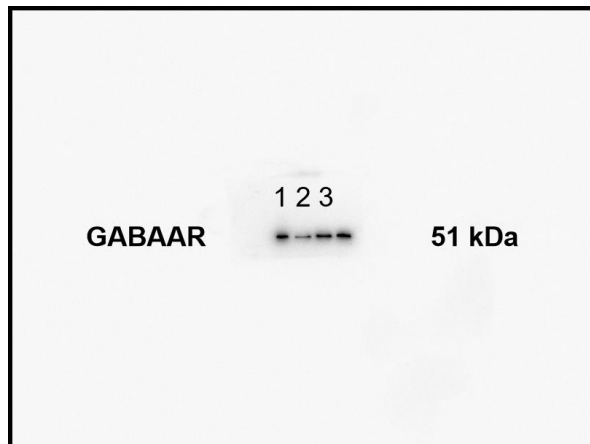
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Supplementary Figure

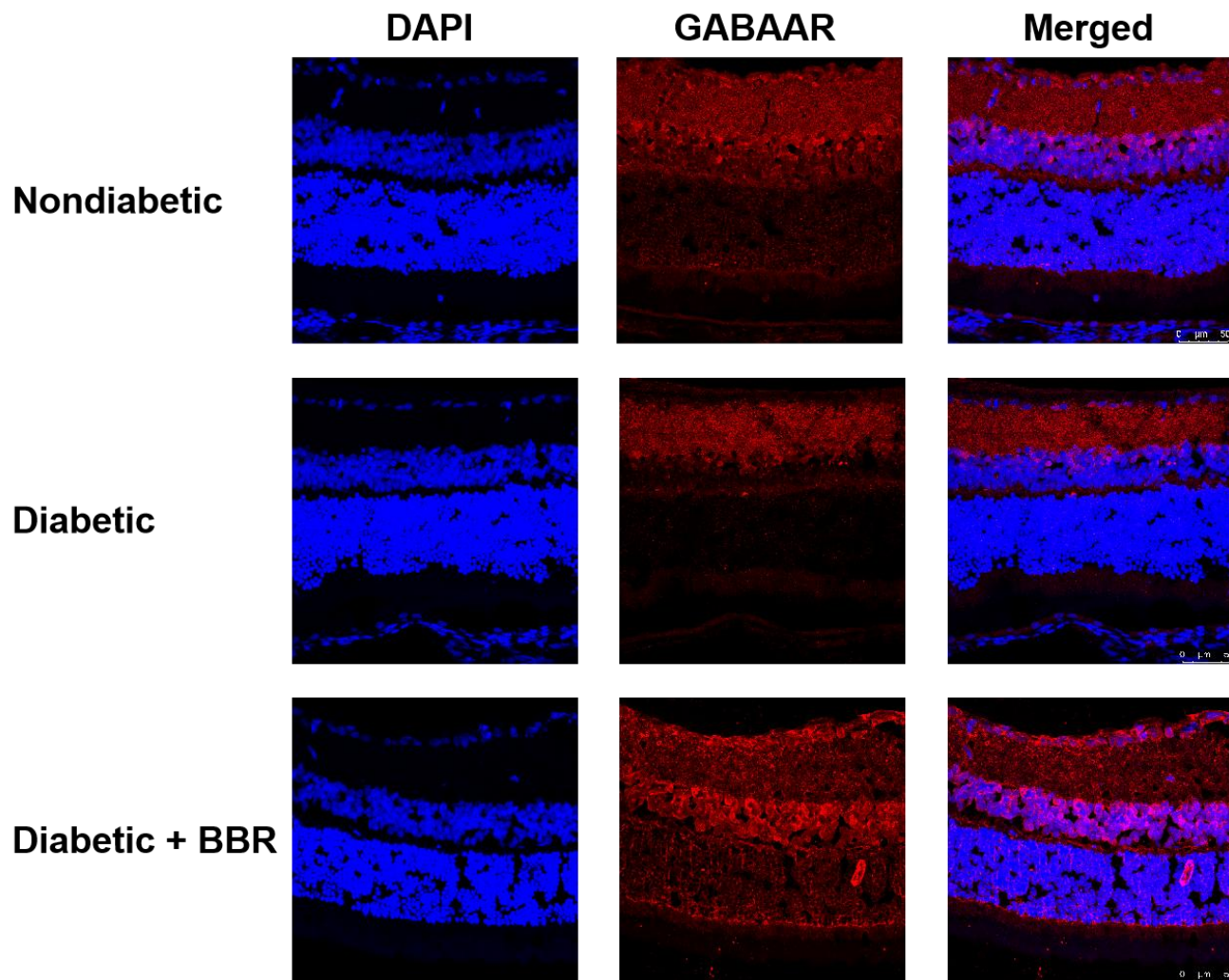
Supplementary Material

**A**

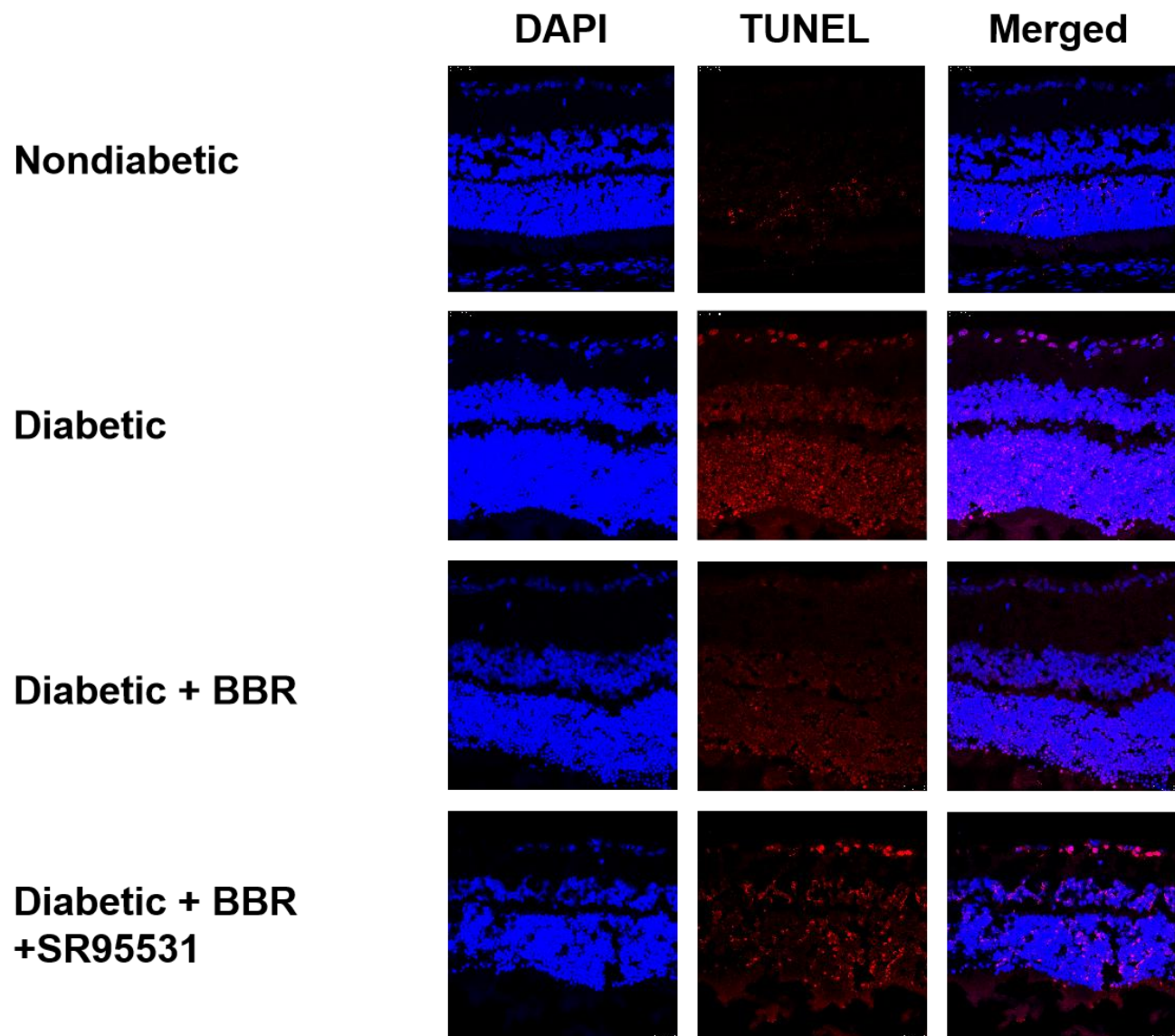


1 - Nondiabetic  
2 - Diabetic  
3 - Diabetic + BBR

**B**

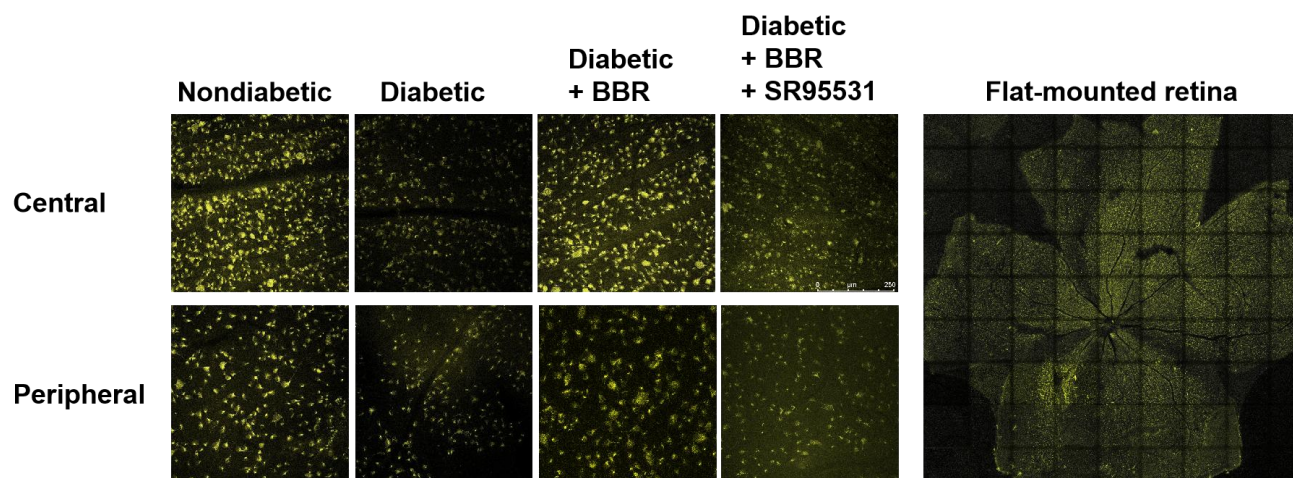


**Supplementary Figure S1.** Full-length blots of **Figure 2A**, and original images of immunofluorescence staining of **Figure 2C**. **(A)** Western blotting analysis of protein expression in retinas of nondiabetic, diabetic and diabetic + BBR group. Full-length blots of Figure 3A, showing the expression of GABAAR and  $\beta$ -tubulin. **(B)** Original images of Figure 2C taken under laser confocal microscopy after immunofluorescence staining. (scale bar, 50  $\mu$ m)

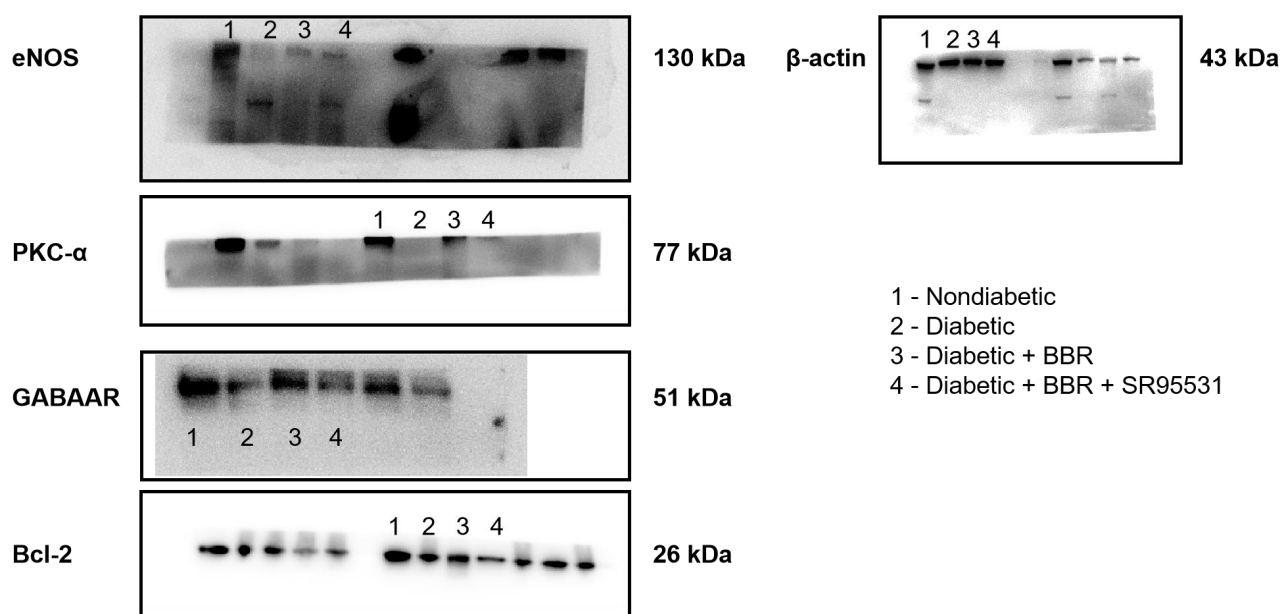


**Supplementary Figure S2.** Original images of TUNEL staining of **Figure 4**.

(scale bar, 25  $\mu$ m)



**Supplementary Figure S3.** Original images of FluoroGold-labeled surviving RGCs in the central and peripheral regions of flat-mounted retinas of **Figure 5**.



**Supplementary Figure S4.** Full-length blots of **Figure 9A**. Western blot showing the protein expression of eNOS, PKC- $\alpha$ , GABAAR, Bcl-2 and  $\beta$ -actin subunit in the nondiabetic, diabetic, diabetic + BBR, diabetic + BBR + SR95531 all four groups.