

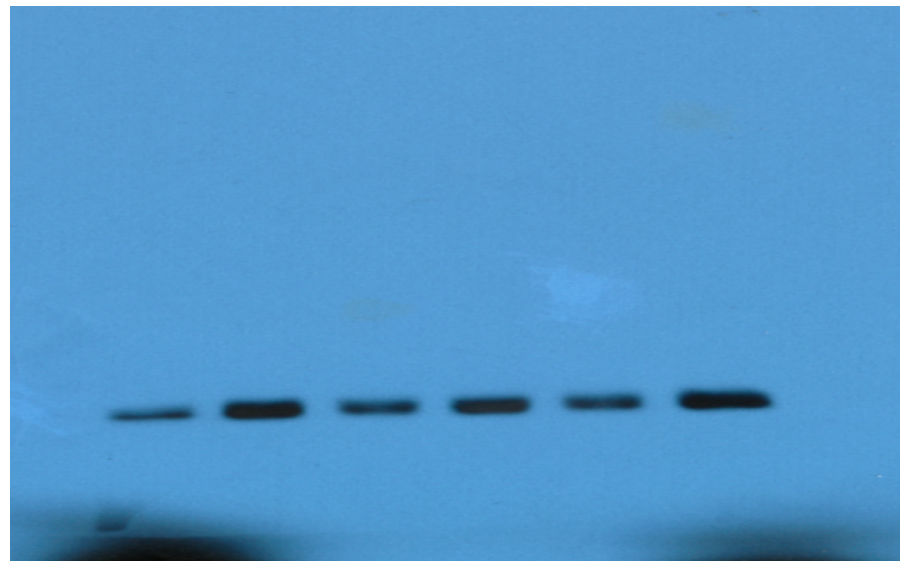
Iron Overload Accelerates the Progression of Diabetic Retinopathy in Association with Increased Retinal Renin Expression

Kapil Chaudhary¹, Wanwisa Promsote², Sudha Ananth³, Rajalakshmi Veeranan-Karmegam³, Amany Tawfik⁴, Pachiappan Arjunan⁴, Pamela Martin³, Sylvia B. Smith⁵, Muthusamy Thangaraju³, Oleg Kisselev⁷, Vadivel Ganapathy⁶, Jaya P. Gnana-Prakasam^{7*}

Control 1
db/db 1

Control 2
db/db 2

Control 3
db/db 3

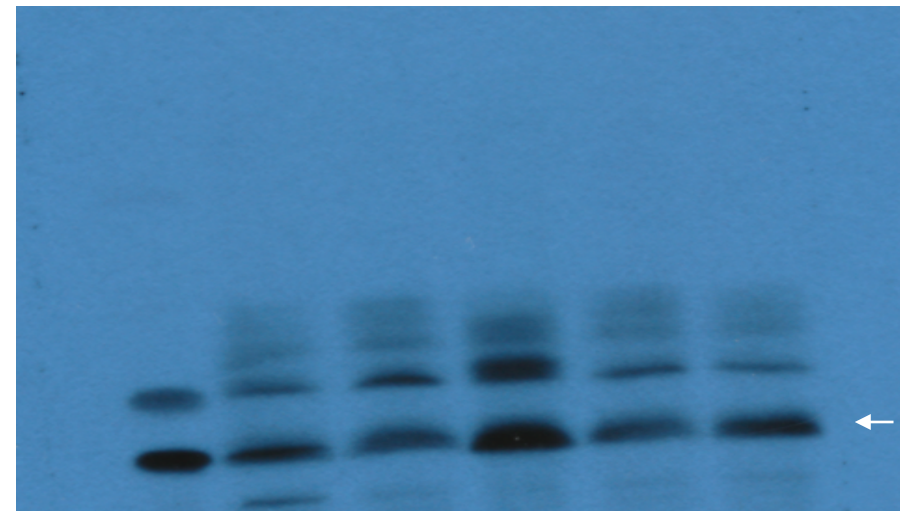


H-Ferritin

Control 1
db/db 1

Control 2
db/db 2

Control 3
db/db 3

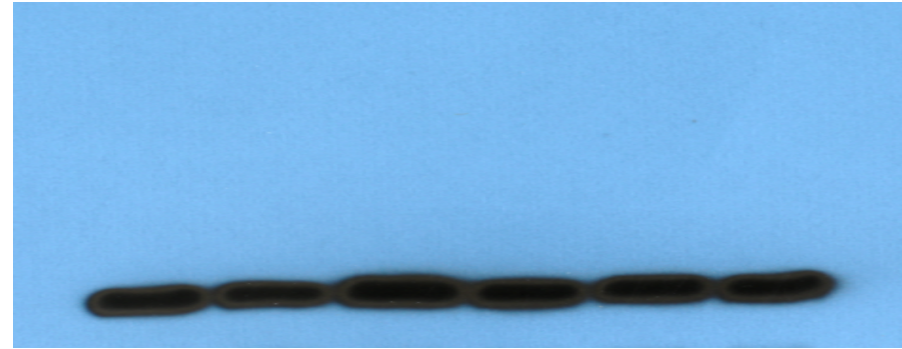


L-Ferritin

Control 1
db/db 1

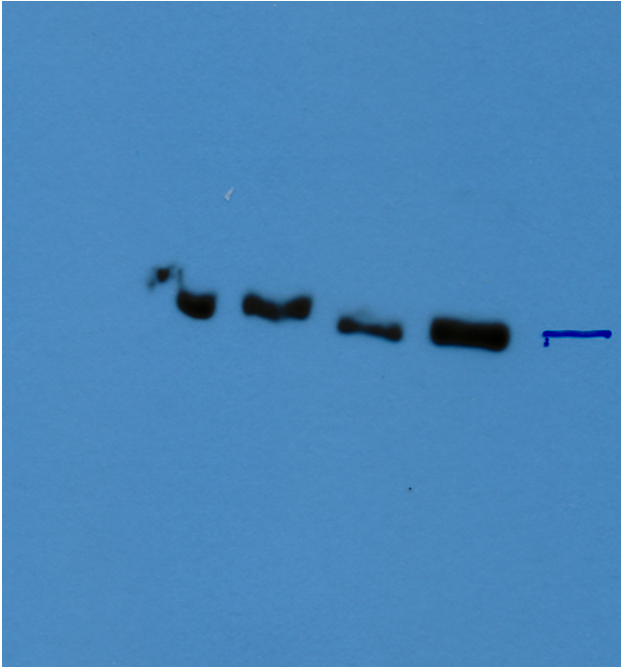
Control 2
db/db 2

Control 3
db/db 3



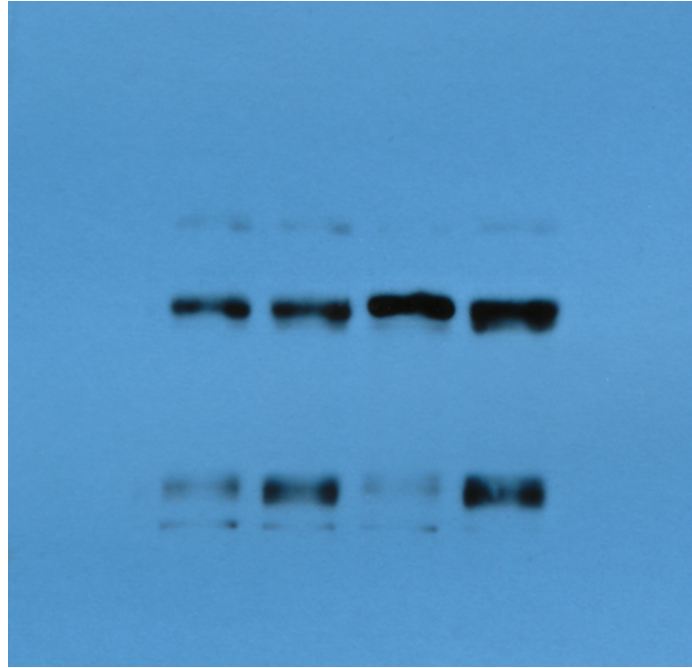
β -actin

Control 1
STZ 1 Control 2
 STZ 2



H-Ferritin

Control 1
STZ 1 Control 2
 STZ 2

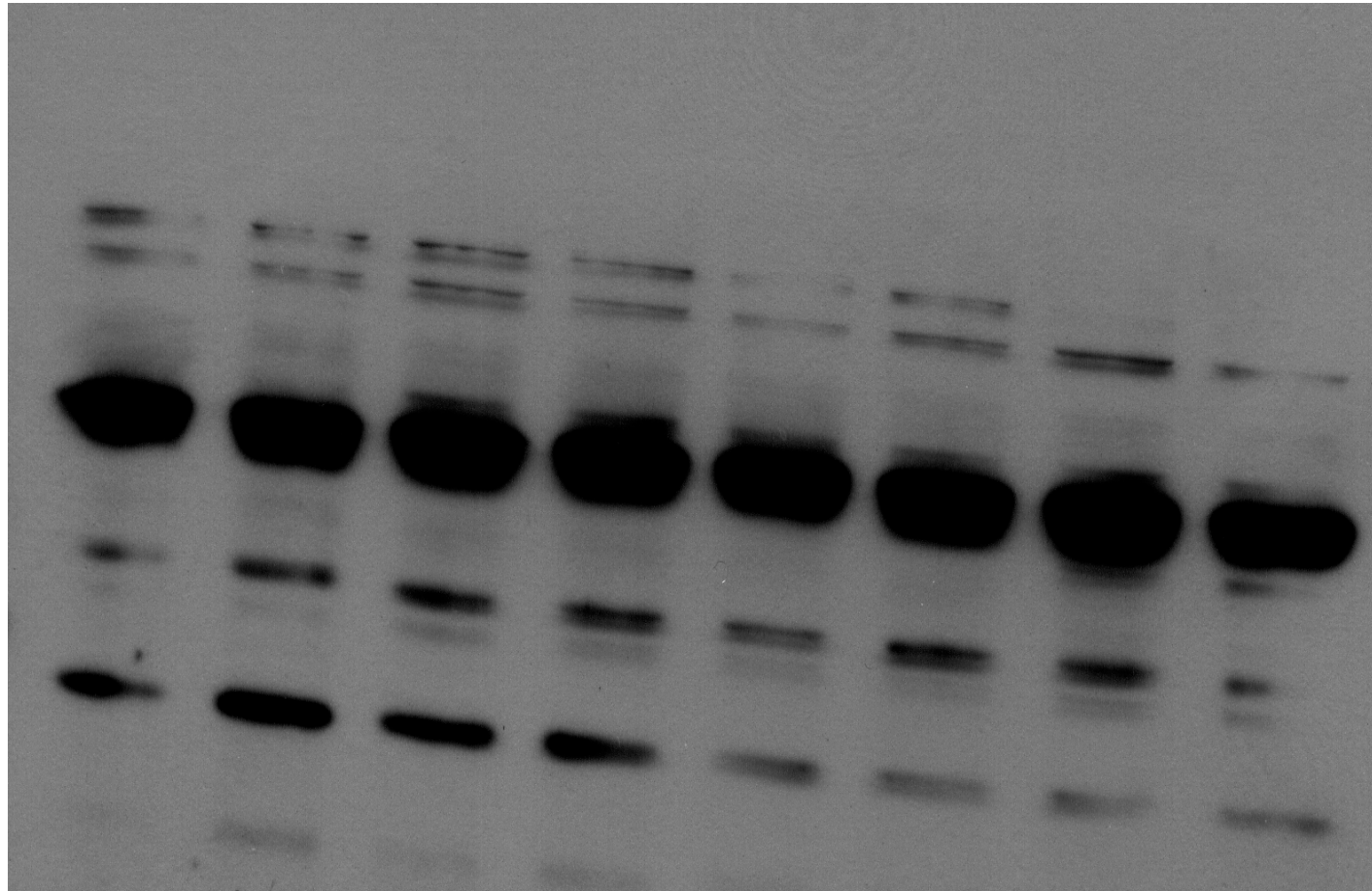


β -actin

L-Ferritin

HFE WT EYE

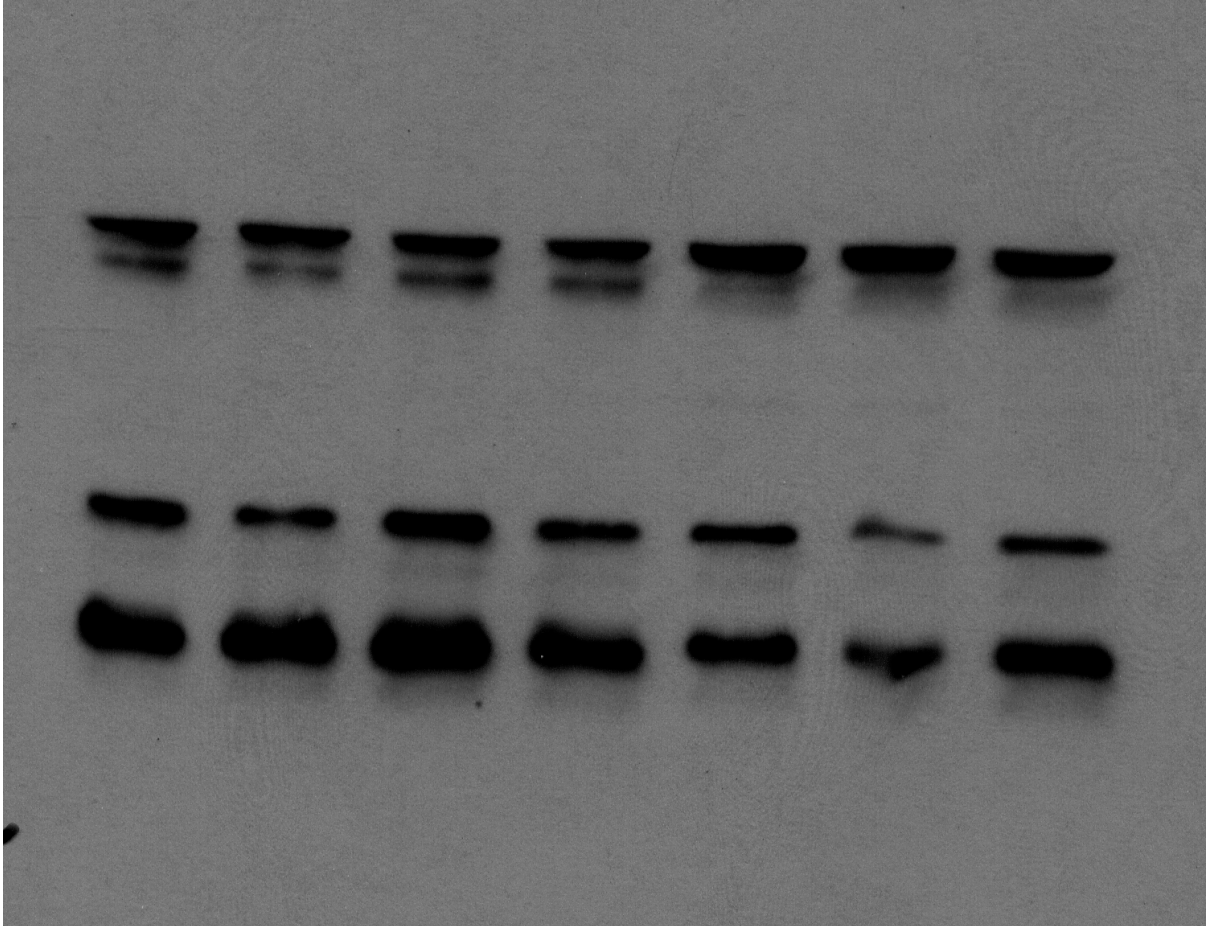
Diabetic 1 Diabetic 2 Diabetic 3 Diabetic 4 Control 1 Control 2 Control 3 Control 4



L-Ferritin

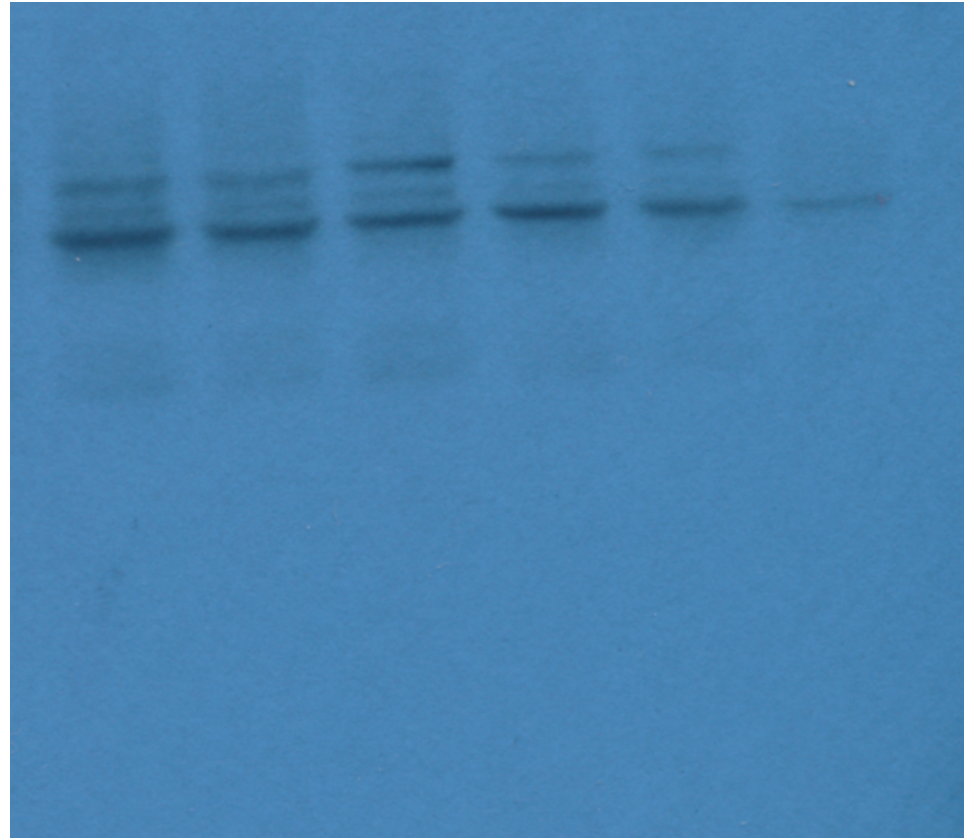
HFE KO EYE

Diabetic 1 Diabetic 2 Diabetic 3 Control 1 Control 2 Control 3 Control 4



L-Ferritin

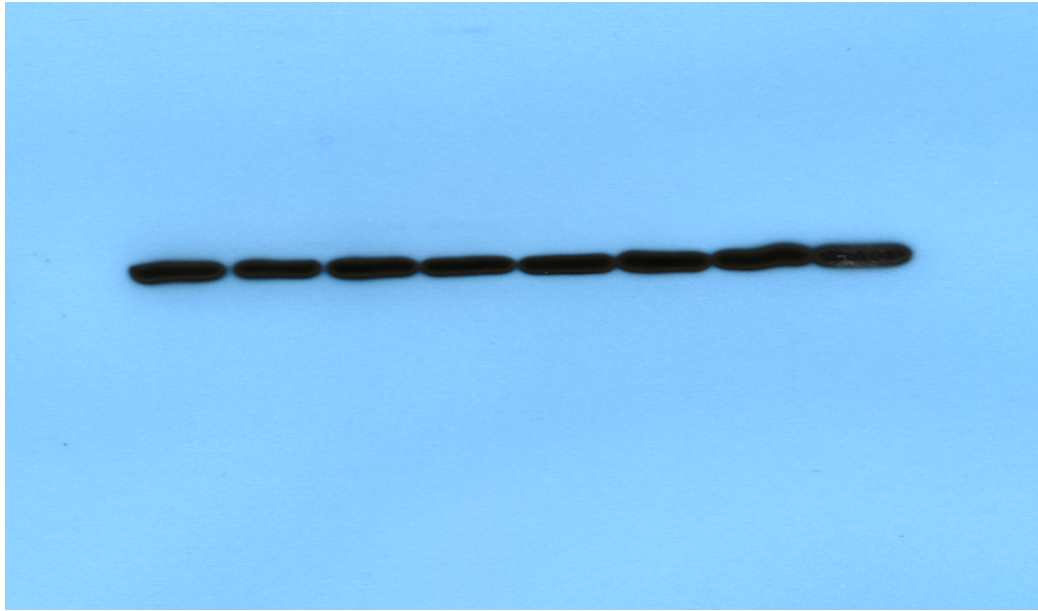
Pos Con 1 Pos Con 2 WT Con KO Con WT Db KO Db



ZO-1

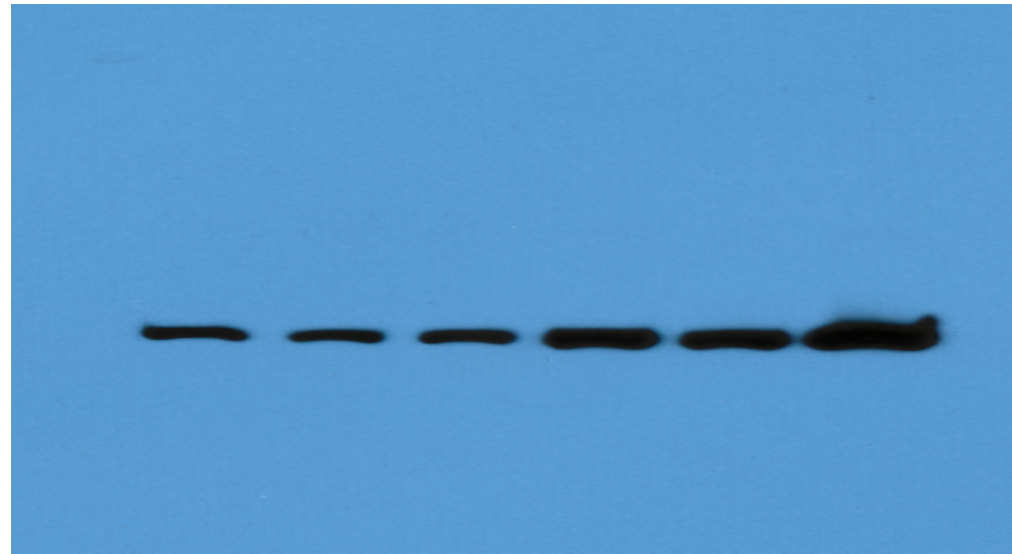
WT Con
KO Con
WT Db
KO Db

WT Con
KO Con
WT Db
KO Db



β -actin

Pos Con 1 Pos Con 2 WT Con KO Con WT Db KO Db



Renin