

# SUPPLEMENTAL DATA

## Inhibition of miR-181a Protects Female Mice from Transient Focal Cerebral Ischemia by Targeting Astrocyte Estrogen Receptor- $\alpha$

Stary *et al.*

### Materials and Methods

**Table S1. ICV injection**

Name		Catalog #	Company
MiR-181a-5p antagomir	5'- ACUCACCGACAGCGUUGAAUGUU- 3'	CTM-160431	GE Dharmacon
Mismatch-Control Sequence	5'- AGUCAGCGAGAGCCUUGAUUGUU- 3',	CTM-160432	GE Dharmacon
DOTAP Liposomal Transfection Reagent		11202375001	Roche

**Table S2. Cell Culture Transfection**

Name	Catalog #	Company
Lipofectamine-2000™	11668019	Invitrogen, Waltham, MA
<i>mirVana</i> ® miR-181a-5p inhibitor	MH10421	Thermo-Fisher Scientific, Waltham, MA
<i>mirVana</i> ® mismatch-control	4464058	Thermo Fisher Scientific
<i>mirVana</i> ® miR-181a-5p mimic	MC10421	Thermo Fisher Scientific
Power TSB™	480003-00	Exiqon, Vedbaek, Denmark

**Table S3. Reverse Transcription Quantitative PCR (RT-qPCR) primer probe sets and reagents**

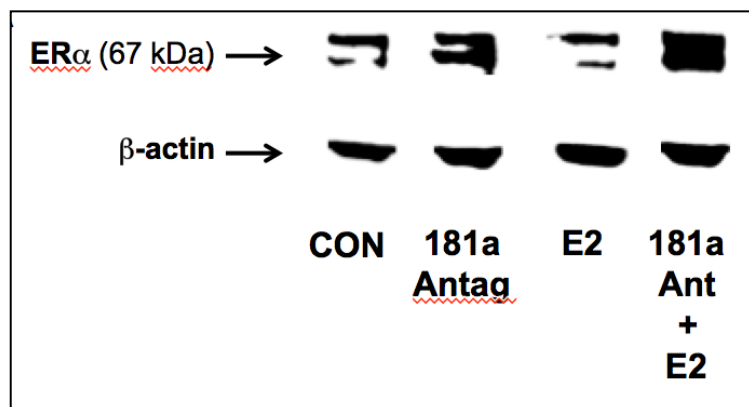
Name	Catalog #	Company
mmu-miR-181a-5p	Mm04238229	Thermo Fisher Scientific
testis-determining factor/sex-determining region Y	Mm00441712	Thermo Fisher Scientific

Glyceraldehyde 3-phosphate dehydrogenase	Mm99999915	Thermo Fisher Scientific
U6 small nuclear RNA	001973	Thermo Fisher Scientific
TaqMan® Assay Kit	4304437	Applied Biosystems, Foster City, CA
TRIzol®	15596026	Invitrogen
TaqMan MicroRNA Reverse Transcription Kit	4366596	Applied Biosystems

**Table S4. Antibodies for Immunoblotting & Immunocytochemistry**

Name	Catalog #	Company	Dilution
<b>Primary Antibodies</b>			
Anti ER $\alpha$	Ab32063	Abcam	1:500
Anti $\beta$ -actin	926-42210	LiCOR Bioscience	1:3000
Anti-Glucose Regulated Protein 78	PA1-37806	Thermo Fisher Scientific	1:10
Anti XIAP Antibody	3331	Prosci	1:1000
Anti BCL2	sc-7382	Santa Cruz Biotech	1:500
<b>Secondary Antibodies</b>			
IRDye® 800CW Donkey anti-Mouse IgG (H + L)	926-32212	LiCOR Bioscience	1:15,000
Alexa Fluor® 594nm-conjugated Goat anti-Rabbit IgG (H+L)	A-11037	Thermo Fisher Scientific	1:500

## Results



**Figure S1.** Example of immunoblot of 67-68 kDa doublet ER $\alpha$  band from brains of OVX mice. Antag = antagomir; CON = control; E2 = 17 $\beta$ -estradiol, ER $\alpha$  = estrogen receptor alpha.