

Supplementary Material

Widespread Reduced Density of Noradrenergic Locus Coeruleus Axons in the *App* Knock-In Mouse Model of Amyloid- β Amyloidosis

Supplementary Table 1. Antibodies used in the present study

Primary antibodies

Antibody name	Supplier	Catalogue #	Host	Dilution
monoclonal anti-NET	Thermo Fisher	MA5-24647	Mouse	1:500
polyclonal anti-NET	Synaptic Systems	260003	Rabbit	1:300
polyclonal anti-DBH	Immunostar	22806	Rabbit	1:500
monoclonal anti-phospho-tau (AT8)	Thermo Fisher	MN1020	Mouse	1:500
polyclonal anti-Iba1	FUJIFILM Wako	019-19741	Rabbit	1:500
monoclonal anti-GFAP	Millipore	345860	Rat	1:750
polyclonal anti-VGLUT1	Synaptic Systems	135303	Rabbit	1:1000
polyclonal anti-PSD-95	Frontier Institute	PSD95-GP-Af660	Guinea pig	1:300
monoclonal anti-SSTR2	Abcam	ab134152	Rabbit	1:2000
monoclonal anti-SST	Millipore	MAB354	Rat	1:300
polyclonal anti-TH	Abcam	ab76442	Chicken	1:1000
polyclonal anti-BDNF	Abcam	ab108319	Rabbit	1:300
monoclonal anti-NGF	Abcam	ab52918	Rabbit	1:200
polyclonal anti-NT3	Alomone Labs	ANT-003	Rabbit	1:400

Secondary antibodies

Antibody name	Supplier	Catalogue #	Host	Dilution
Alexa Fluor 488 polyclonal anti-mouse IgG	Abcam	ab150117	Goat	1:500
Alexa Fluor 488 polyclonal anti-rabbit IgG	Abcam	ab150081	Goat	1:500
Alexa Fluor 594 polyclonal anti-rabbit IgG	Abcam	ab150084	Goat	1:500
Alexa Fluor 647 polyclonal anti-rabbit IgG	Abcam	ab150079	Goat	1:500
Alexa Fluor 488 polyclonal anti-rat IgG	Abcam	ab150165	Goat	1:500
Alexa Fluor 647 polyclonal anti-rat IgG	Abcam	ab150167	Goat	1:500
Alexa Fluor 594 polyclonal anti-guinea pig IgG	Abcam	ab150188	Goat	1:500
Alexa Fluor 594 polyclonal anti-chicken IgY	Abcam	ab150176	Goat	1:500

Supplementary Table 2. Primer sequences used in the present study

<i>Bdnf</i> 191 bp
Forward ; 5'-TACCTGGATGCCGCAAACAT-3'
Reverse ; 5'-TGCTTCAGTTGGCCTTTGGA-3'

<i>Ngf</i> 167 bp
Forward ; 5'-TCACTGCGTTTTTGATCGGC-3'
Reverse ; 5'-TGTCACCTCGGGCAGCTATTG-3'

<i>Ntf3</i> 117 bp (PrimerBank)
Forward ; 5'-GGAGTTTGCCGGAAGACTCTC-3'
Reverse ; 5'-GGGTGCTCTGGTAATTTTCCTTA-3'

<i>Gdnf</i> 186 bp (PrimerBank)
Forward ; 5'-CCAGTGACTCCAATATGCCTG-3'
Reverse ; 5'-CTCTGCGACCTTCCCTCTG-3'

<i>Actb</i> (β -actin) 213 bp [1]
Forward ; 5'-GTTCGATCCGTAACCGATGT-3'
Reverse ; 5'-CCTCTCTTGCTCTGGGCCTCGT-3'

REFERENCES

- [1] Wang Z, Yang D, Zhang X, Li T, Li J, Tang Y, Le W (2011) Hypoxia-induced down-regulation of neprilysin by histone modification in mouse primary cortical and hippocampal neurons. *PLoS One* 6, e19229.