

Supplemental Table 1 Plaque load across hippocampal regions

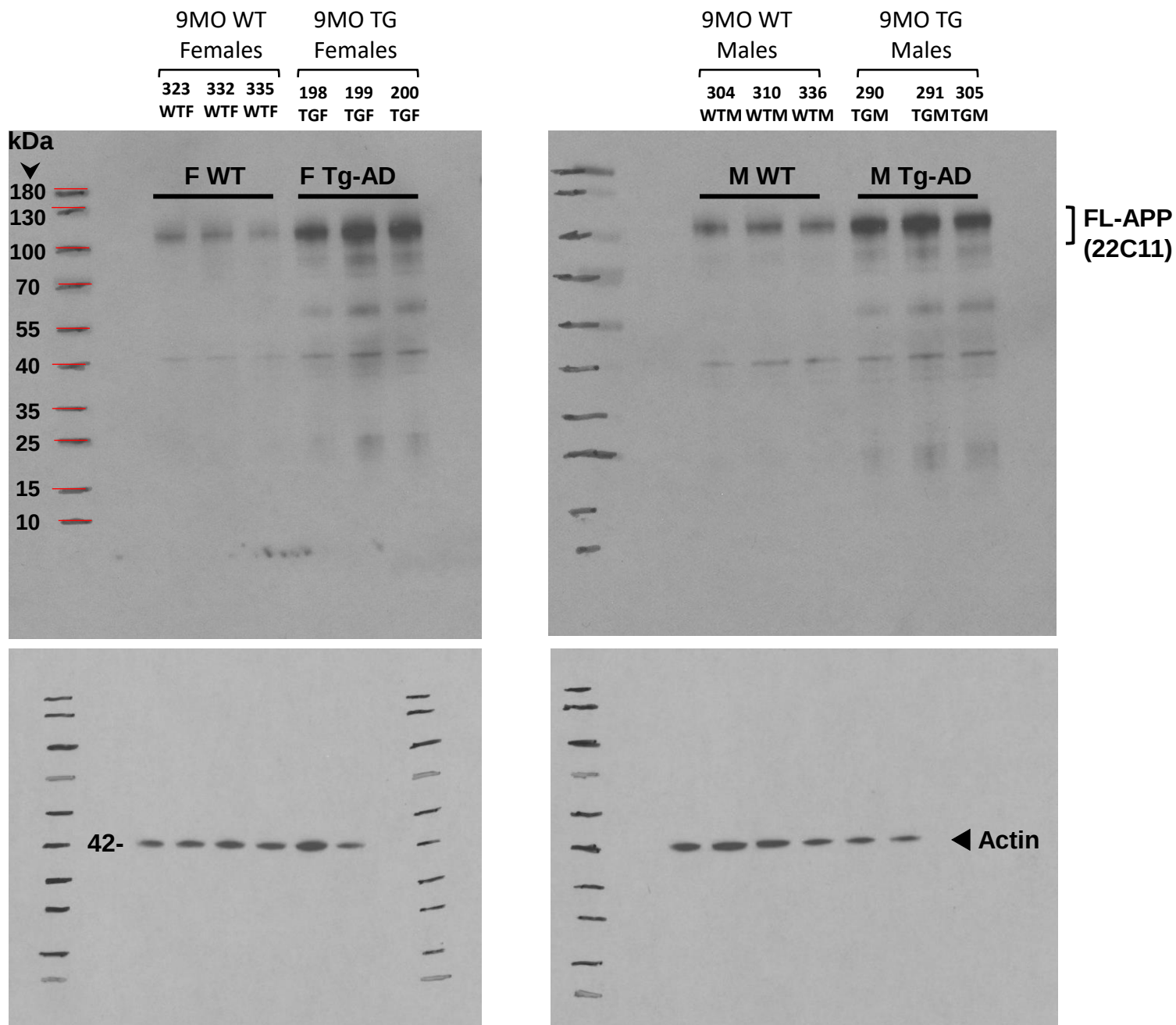
	F Tg-AD mean $\pm$ SEM n = 6	p-value (DG vs other)	M Tg-AD mean $\pm$ SEM n = 10	p-value (DG vs other)
SB	0.58 $\pm$ 0.04	0.0002***	0.47 $\pm$ 0.07	0.002**
CA1	0.48 $\pm$ 0.03	<0.0001****	0.46 $\pm$ 0.06	0.0009***
CA3	0.57 $\pm$ 0.08	0.0002***	0.49 $\pm$ 0.05	0.003**
DG	0.98 $\pm$ 0.05	-	0.80 $\pm$ 0.06	-

Values represent the percent of the signal (A β +) detected within a specific area (= 100%, μ m²) as explained under materials and methods. Abbreviations: Tg-AD, transgenic rat model of Alzheimer's disease; SEM, standard error of the mean; SB, subiculum; CA, cornu ammonis; DG, dentate gyrus. Statistical analysis: one way ANOVA and Tukey's multiple comparison.

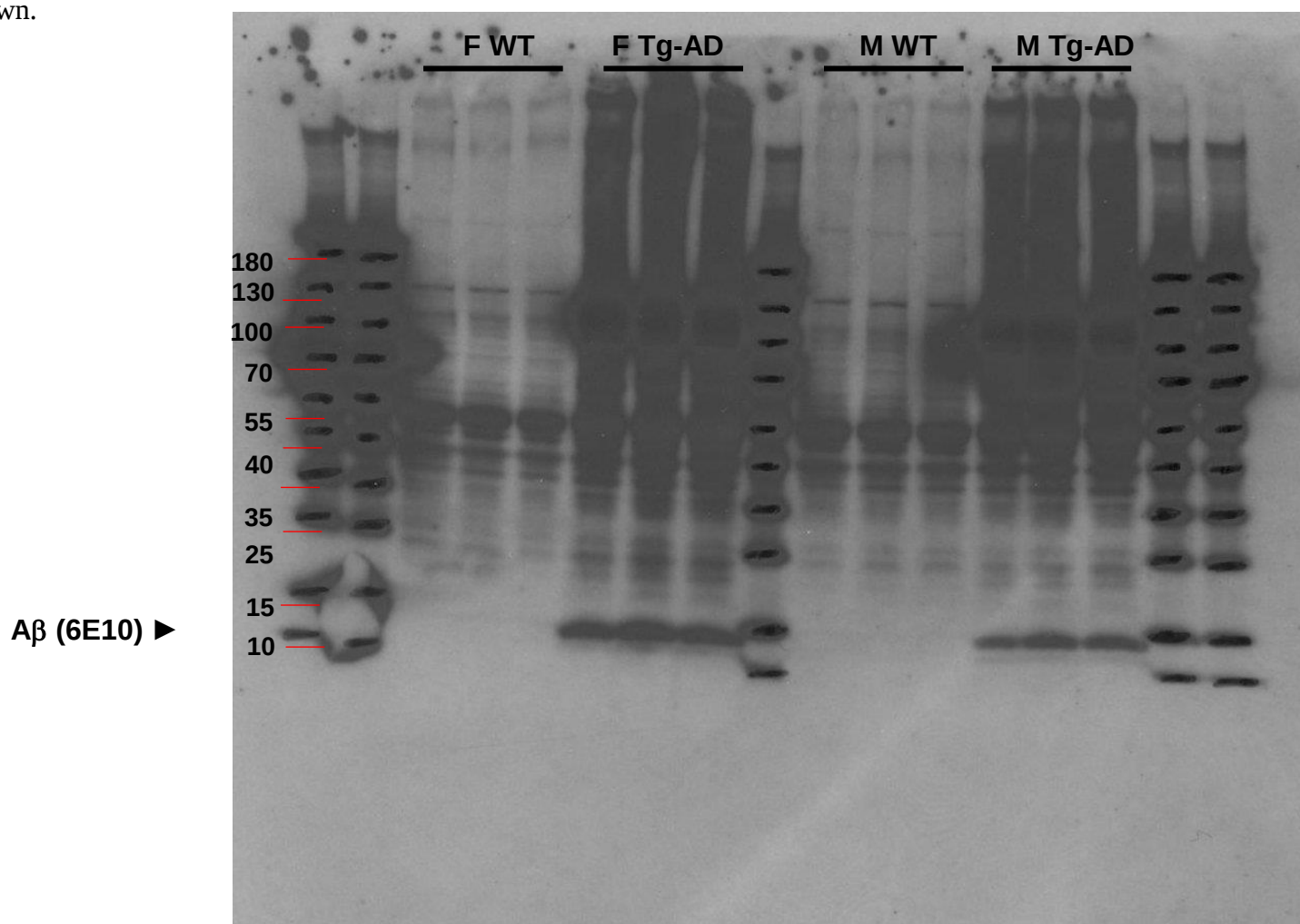
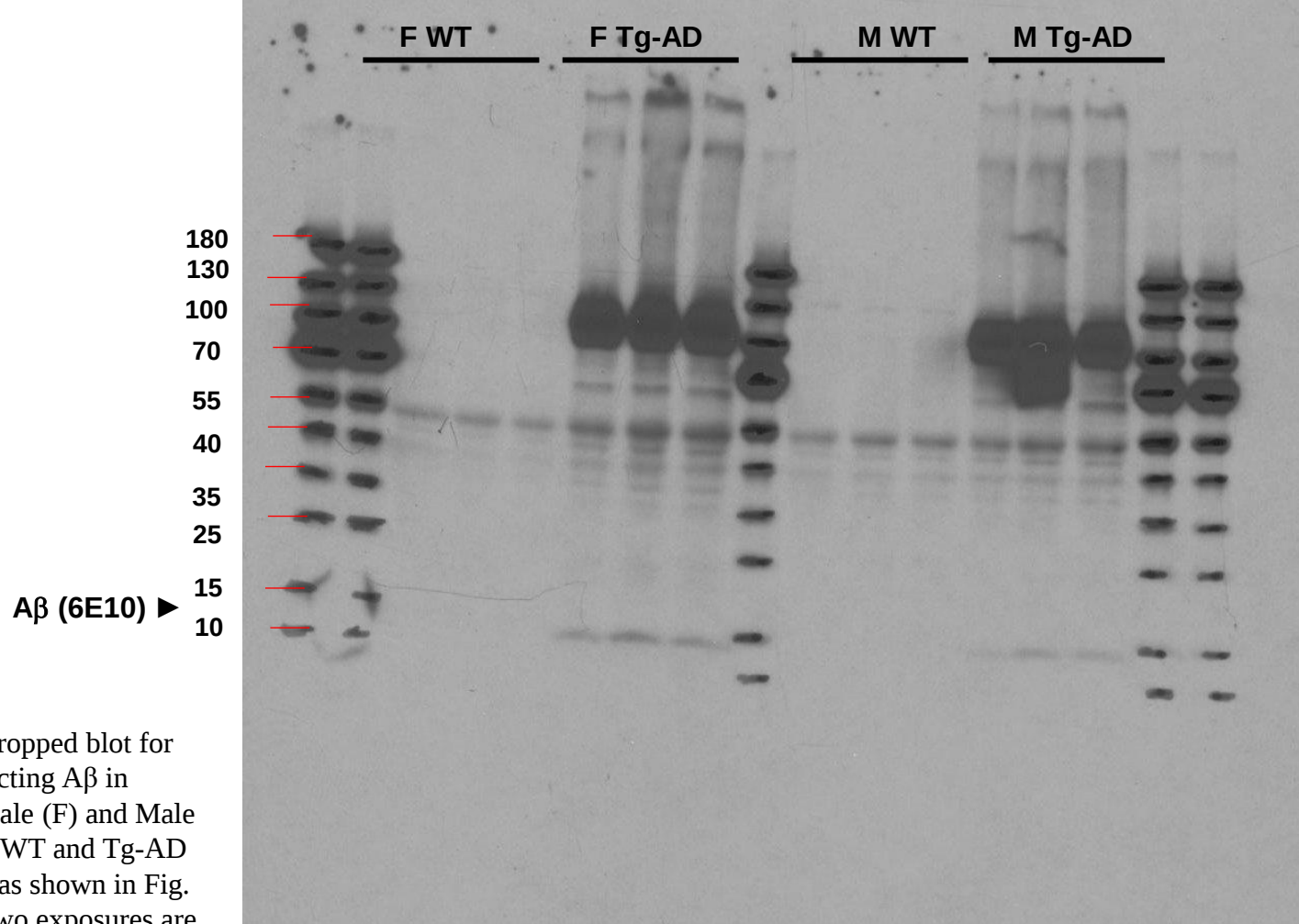
Supplemental Table 2 Antibodies used for IHC and WB analyses of hippocampal tissue

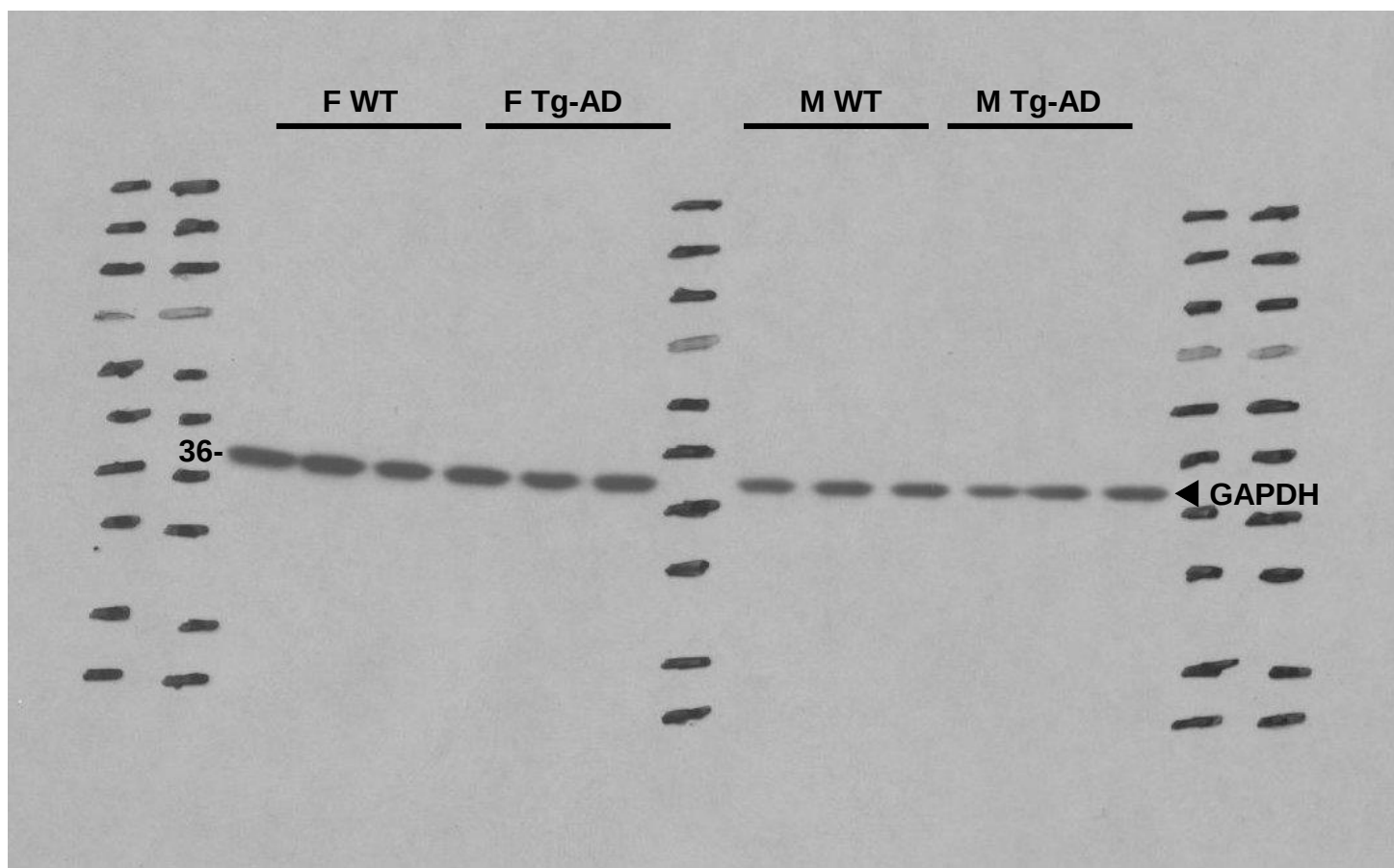
Antibody	Company	Catalog Number	Species/Type	Dilution	Assay
PRIMARYS					
Aβ (4G8)	Biologend	#800708	Mouse Monoclonal	1:1000	IHC
Aβ (6E10)	Biologend	#SIG-39320	Mouse Monoclonal	1:2000	WB
FL-APP (22C11)	Millipore Sigma	#MAB348	Mouse Monoclonal	1:2000	WB
Iba1	Fujifilm WAKO	#019-19741	Rabbit Polyclonal	1:500	IHC
NeuN	Millipore Sigma	#ABN91	Chicken Polyclonal	1:250	IHC
β-Actin (AC-74)	Sigma-Aldrich	#A2228	Mouse Monoclonal	1:20000	WB
GluR2 (6C4)	Millipore Sigma	#MAB397	Mouse Monoclonal	1:800/1:3000	IHC/WB
GluR1	Millipore Sigma	#ABN241	Rabbit Polyclonal	1:2000	WB
PSD95 (D27E11)	Cell Signaling	#MAB3450	Rabbit Monoclonal	1:200/1:1000	IHC/WB
SECONDARIES					
Alexa Fluor 488, Goat anti-Rabbit IgG (H+L)	ThermoFisher	#A-27034	Rabbit Secondary	1:250	IHC
Alexa Fluor 488, Goat anti-Mouse IgG (H+L)	ThermoFisher	#A-11029	Mouse Secondary	1:250	IHC
Alexa Fluor 568, Goat anti-Mouse IgG (H+L)	ThermoFisher	#A-11031	Mouse Secondary	1:250	IHC
Alexa Fluor 568, Goat anti-Rabbit IgG (H+L)	ThermoFisher	#A-11036	Rabbit Secondary	1:250	IHC
DyLight 350, Goat anti-Chicken IgY (H+L)	ThermoFisher	# SA5-10069	Chicken Secondary	1:100	IHC
Goat Anti-Rabbit IgG (H + L)-HRP	Cell Signaling	#7074	Rabbit Secondary	1:2000	WB
Goat Anti-Mouse IgG (H + L)-HRP	Cell Signaling	#7076	Mouse Secondary	1:2000-10000	WB

Abbreviations: IHC, immunohistochemistry; WB, western blot; A β , amyloid β ; FL-APP, full length amyloid precursor protein; Iba1, ionized calcium binding adaptor molecule 1; NeuN, neuronal nuclei; neuronal marker; GluR1, glutamate receptor 1; GluR2, glutamate receptor 2; PSD95, post-synaptic density protein 95



Uncropped blot for detection of FL APP and Actin in 9-month Female and Male WT and Tg-AD rats as shown in Fig. 6.
The numbers refer to specific rats.





Uncropped blot for detection of GAPDH in Female (F) and Male (M) WT and Tg-AD rats as shown in Fig. 6.