

AD / Tauopathy



TMHT Transgenic Mouse Model

The TMHT (Thy1 Mutated Human Tau) mouse was developed in-house and is exclusively available at QPS Austria. TMHT mice overexpress the human TAU441 with two mutations, V337M and R406W under control of the neuron- specific murine Thy1 promoter.

- · Cognitive deficits in the Morris water maze starting at 5 months of age
- · No motor deficits
- TAU phosphorylation at Thr181, Ser202, Thr231/Ser235, Ser396/Ser404

Figure 1: Morris water maze escape latencies of 5 and 8 month old TMHT mice. Mean ± SEM; n = 19 - 54; Two-way ANOVA with Bonferroni's post hoc test; *p<0.05, ****p<0.01.

Figure 2:

Quantitative analysis of soluble and insoluble Tau and pTau expression levels

in the hippocampus of 3 to

13 months old TMHT mice compared to non-trans-

A: Soluble total Tau levels.

genic animals by MSD

immunosorbent assay.

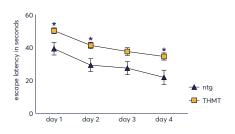
B: Soluble pTau Thr231

SEM. Two-way ANOVA with Bonferroni's post hoc test. ***p< 0.001

levels. n = 4 - 13. Mean ±

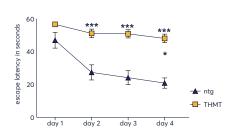
5 months

Figure 1: A



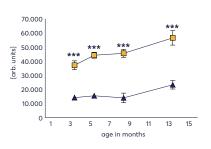
8 months

Figure 1: B



soluble total rau

Figure 2: A



soluble ptau

Figure 2: B

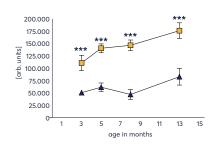
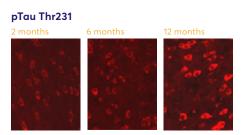
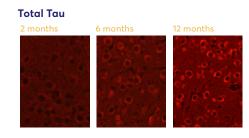


Figure 3: Immuofluorescent of total tau (HT7) and pTau Thr231 (AT180) labeling in the amygdala of 2, 6 and 12 months old TMHT mice.





Flunkert et al. Elevated Levels of Soluble Total and Hyperphosphorylated Tau Result in Early Behavioral Deficits and Distinct Changes in Brain Pathology in a New Tau Transgenic Mouse Model. Neurodegener Dis. 2012 Jul 10.

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