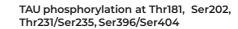
AD / Tauopathy

TMHT Transgenic Mouse Model

The TMHT (Thyl 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 Thyl promoter.

- Cognitive deficits in the Morris water maze starting at 5 months of age
- No motor deficits



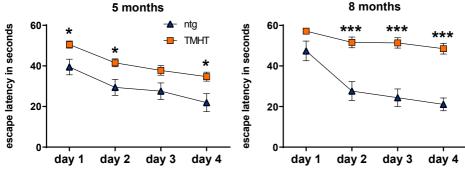


Figure 1: Morris water maze escape latencies of 5 and 8 month old TMHT mice. Mean \pm SEM; n = 19 - 54; Two-way ANOVA with Bonferroni's *post hoc* test; *p<0.05, ***p<0.01.

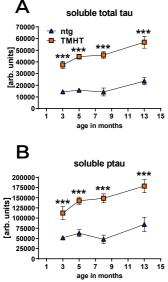


Figure 2: **Ouantitative** analysis of soluble and insoluble Tau and pTau expression levels the in hippocampus of 3 to 13 months old TMHT mice compared to non-transgenic animals bv MSD immunosorbent Soluble assay. A: total Tau levels. B: Soluble pTau Thr231 levels. n = 4 - 13. Mean ± SEM. Twoway ANOVA with Bonferroni's post hoc test. ***p< 0.001

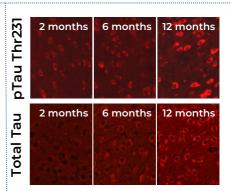


Figure 3: Immuofluorescent of total tau (HT7) and pTau Thr231 (AT180) labeling in the amygdala of 2, 6 and 12 months old TMHT mice.

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.

TMHT mice are cryo-preserved and will be recovered upon request.



QPS Austria

Parkring 12, 8074 Grambach, Austria Email office-austria@qps.com Website www.qpsneuro.com Tel +43 316 258 111

QPS LLC

3 Innovation Way, Suite 240 Newark, DE 19711, USA Email info@qps.com Website www.qps.com