



hTau Transgenic Mouse Model

hTau mice express human tau derived from a human PAC, H1 haplotype, known as 8c mice, while murine tau is knocked out by a targeted disruption of exon 1.

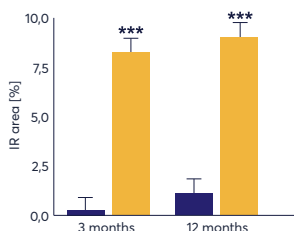
- High total tau expression
- Increased ptau Thr231 levels
- Increased ptau Thr181 levels
- Increased ptau Ser396/404 levels
- Increased ptau Ser202/Thr205 levels

Figure 1:

Quantitative analysis of total tau, ptau Ser396/404 and ptau Ser202/Thr205 levels in the cortex of 3 and 12 month old hTau mice compared to non-transgenic (ntg) littermates by HT7, AD2, and EPR2402 antibody, respectively. Immunoreactive area (IR) in percent; n = 8 per group. Mean + SEM; Two-way ANOVA with Bonferroni's post hoc test; ***p<0.001.

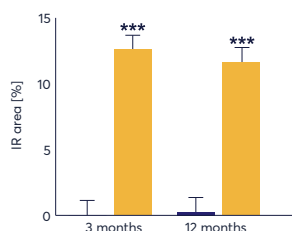
Total tau

Figure 1:



ptau Ser396/404

Figure 1:



ptau Ser202/205

Figure 1:

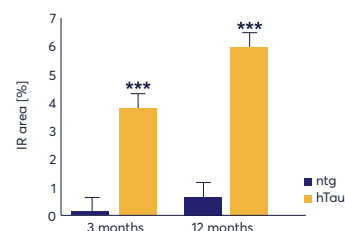
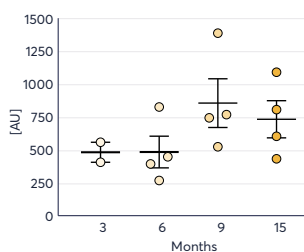


Figure 2:

Soluble ptau levels in the brain of hTau mice. Soluble tissue fractions of 3, 6, 9, and 15 month old animals were analyzed for pThr231 and pThr181 levels by MSD-ISA. One-way ANOVA with Newman's Keul's multiple comparison test. Mean ± SEM; n = 2 - 4.

ptau Thr231

Figure 1: A



ptau Thr181

Figure 2: B

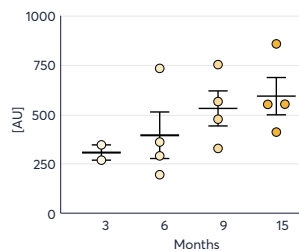
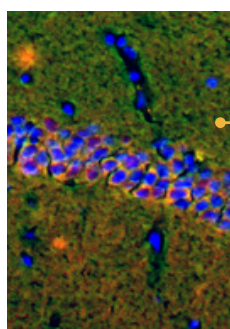


Figure 3:

Representative image of ptau Ser202/Thr205 and total tau (HT7) labeling in the cortex of hTau mice.



HT7
ptau Ser202/Thr205
DAPI

Andorfer C, Kress Y, Espinoza M, de Silva R, Tucker KL, Barde YA, Duff K, Davies P. Hyperphosphorylation and aggregation of tau in mice expressing normal human tau isoforms. J Neurochem. 2003 Aug;86(3):582-90.

