

Supporting Information

Low Concentrations of Tetrabromobisphenol A Disrupt Notch Signaling and Intestinal Development in *in Vitro* and *in Vivo* Models

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Table S1. Primers sequences of all tested genes used for qPCR and related information.

Gene	Species	Forward Primer	Reverse Primer	Annealing temperature (°C)
rpl8	Xenopus	CCGTGGTGTGGCTATGAATC	TACGACGAGCAGCAATAAGAC	58
dll1	Xenopus	CGGCCATTTCCTGTGGTG	ATGCAGGCATCCTGGTAAC	60
dll3	Xenopus	TTGGGTATGGGGCAAAGAC	TTCCCATAAAACCCGTGGGG	60
jag1	Xenopus	GCATGCTCAAATGCCTGAG	GAGGGCTCTCCTTGGAAAC	60
notch1	Xenopus	GCCTTGGGACCTTATCCTC	TGAGTGCATCGAAGACCTG	60
hairy1	Xenopus	CCAGCGGACACTCTTCTTC	AGCGCAATAGGTCCACAAAC	60
hairy2b	Xenopus	AGTCTCCAGTGCAGGGACTC	TCCCATAAGAACGGAACCAAC	60
olfm4	Xenopus	GCAAACATGGAGGATTGGCA	GTTGCAGAGGAGCTACCCA	60
lgr5	Xenopus	TGGGCTTGTCTAGCGGTGTGC	CCAC TTTCCCACCAGGCACCG	60
alpi	Xenopus	CACACCGAGCCAAGAATCTCA	CCTGATATATGCGAGCTGCAGTTA	60
villin	Xenopus	CACATACAATGTAAGCGCCTCT	CAGGAAGACATCACCTAGATTAAAGCT	60
chgA	Xenopus	CTGCTCAAGTCAAGCCACTGT	AGGGCTATGGAGATGACTCCC	60
lyz	Xenopus	ATGACAAGACCCCCGAGAAGC	CACCACCGCTTTGCACATA	60
dio3	Xenopus	GATGCTGTGGCTGCTGGAT	ATTGGTTGGAGTCGGACAC	62
st3	Xenopus	CCTCTGTACACACTTACCTT	TGAACCGTGAGCATTGAG	62
thrb	Xenopus	GAGATGGCAGTGACAAGG	CAAGGCGACTTCGGTATC	58
thibz	Xenopus	CCACCTCCACAGAAATCAGCAG	AGAAGTGTCCGACAGCCAAG	62
jag1	Rat	CTGCTTGAATGGGGTCACT	CACGATTGTAGCATGGCG	60
notch1	Rat	TTGGTCCGAGGGCATCTCTA	CACGATTGTAGCATGGCG	60
lgr5	Rat	GGCTGCCCATCATACTGTAC	GGTCAGGTAGGAGGTGAAGA	60
hes1	Rat	TTCAGCGAGTGCATGAACGA	AGGTCATGGCGTTGATCTGG	60
hey2	Rat	CTGCTCCAACCCAATGGACT	TGATGGCATCCGAAGAGCAG	60
villin	Rat	GGACAAAGGTGGTCTCCTG	AGAGAGCCTTGACTTGGC	60
gapdh	Rat	GCCAAGGTACATCCATGACAAC	GTCCACCACCCCTGTTGCTGTA	60
thrb	Rat	AGGACACAGACCATACGCAACA	GCCACAAAGGACAGCCAAGG	60
thra	Rat	GCAAACACAACATTCCGCAC	ACTTCATGTGGAGGAAGCGG	60
hairless	Rat	TGGCCCTGTAGGAAATGTCAGGA	ATTCAGCTTGGTGTGATGGCTTGG	60
klf9	Rat	CACCGAATCTGGGTCGAGTC	CCGTTCACCTGTATGCACTC	60

Rpl8: ribosomal protein L8; dll1: delta-like 1, dll3: delta-like 3, notch1: Notch receptor 1; jag1: jagged-1; lgr5: leucine-rich repeat-containing G protein-coupled receptor 5; hairy1: hes family bHLH transcription factor 1; hairy2b: hes family bHLH transcription factor 4; olfm4: olfactomedin 4; alpi: alkaline phosphatase; chgA: chromogranin A; lyz: lysozyme; dio3: iodothyronine deiodinase 3; st3: ; thrb: thyroid hormone receptor beta; thibz: thyroid hormone induced bZip protein; hes1: hes family bHLH transcription factor 1; hey2: hes related family bHLH transcription factor with YRPW motif 2; gapdh: glyceraldehyde-3-phosphate dehydrogenase; thra: thyroid hormone receptor alpha; klf9: kruppel-like factor 9, hairless: HR lysine demethylase and nuclear receptor corepressor.

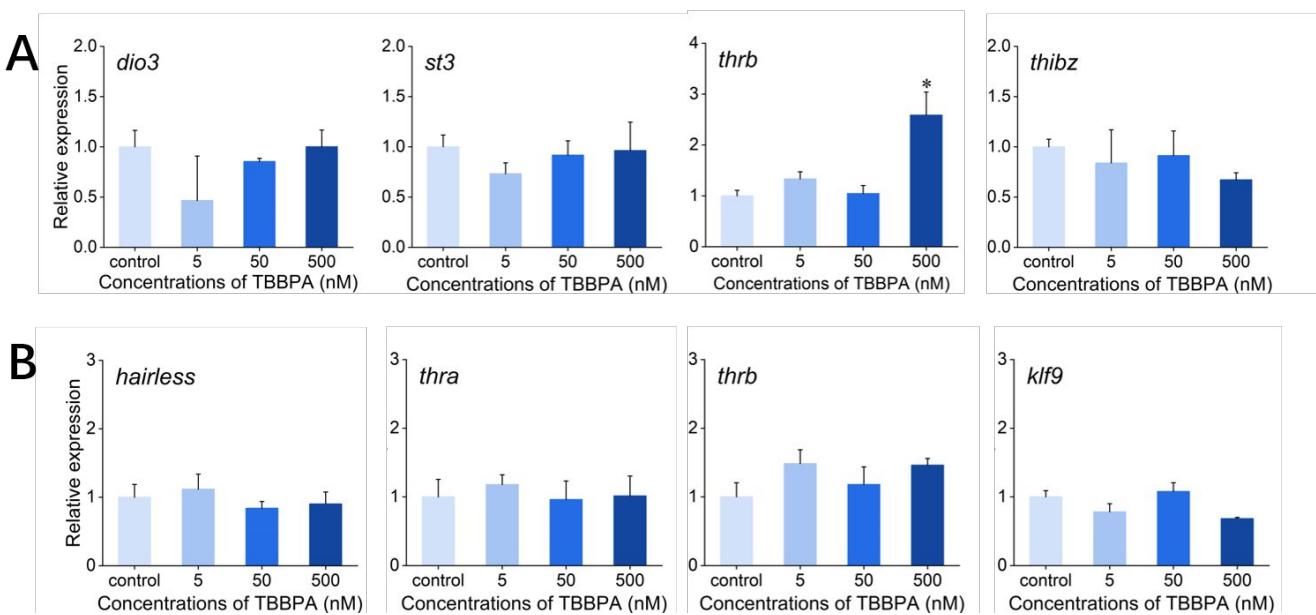


Figure S1. Relative expression of TH-response genes in *X. laevis* tadpoles at stage 52 (A) and IEC-6 cells (B) following exposure to 5-500 nM TBBPA. Data are shown as mean \pm SEM. * indicates significant difference between TBBPA treatment and the control ($p < 0.05$).