

Xenobiotic Sensors



PXR, CAR, and AHR Single, Double, and Triple Knockout Rats

Horizon has generated knockout rats lacking the PXR, CAR, and AHR xenobiotic sensors.

Investigate the drug metabolism of your compound with these novel models.

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The pregnane X receptor (PXR), the constitutive androstane receptor (CAR), and the aryl hydrocarbon receptor are involved in the induction of cytochrome p450 and related genes and are abundantly expressed in the liver and intestine. These models are useful for studying metabolism of xenobiotic compounds and hepatotoxicity.

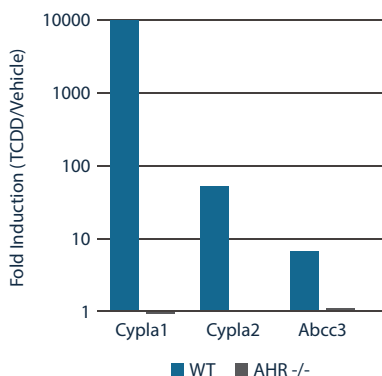
Available Models

PXR	AHR	PXR/CAR/AHR triple KO
CAR	PXR/CAR double KO	

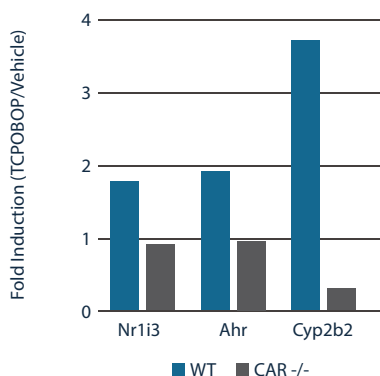
Available Knockout Rat Primary Hepatocytes

PXR	AHR	PXR/CAR/AHR triple KO
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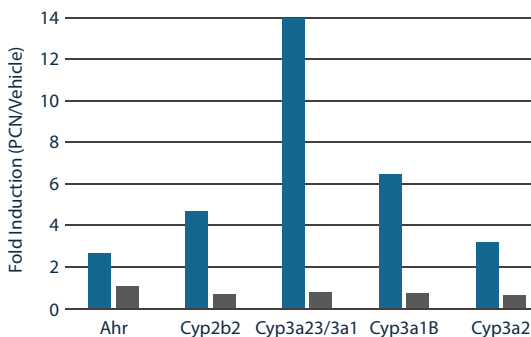
Loss of Cyp1a1 and Cyp1a2 induction in AHR Knockout Rats after TCDD Treatment



Loss of Cyp2b2 induction in CAR Knockout Rats after TCPOBOP Treatment



Loss of Cyp induction in PXR Knockout Rats after PCN Treatment



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