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Ptgs2 (Cyclooxygenase-2) Conditional Knockout Mouse

Tech ID: 21496 / UC Case 2010-534-0

INNOVATION

Prostaglandin-endoperoxide synthase 2 (Ptgs2, also known as Cyclooxygenase-2 or Cox-2) is an enzyme involved in the biosynthesis of prostanoids. Aberrant Ptgs2 expression plays major causal and modulatory roles in various cancers, neurodegenerative diseases, and chronic and acute inflammation conditions. Researchers at UCLA have developed a transgenic mouse model that results in conditional deletion of the Ptgs2 gene using Cre/loxP technology. This innovation allows the investigation of Ptgs2 function in specific tissues or at various developmental time points.

APPLICATIONS

- ▶ This innovation allows conditional deletion of the highly pleiotropic Ptgs2 gene in mouse.

RELATED MATERIALS

- ▶ [Ishikawa TO and Herschman HR. Conditional knockout mouse for tissue-specific disruption of the cyclooxygenase-2 \(Cox-2\) gene. Genesis. 44\(3\):143-9 \(2006\)](#)

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- ▶ [Synaptotagmin-4 Knockout Mice](#)
- ▶ [Ptgs2 \(Cyclooxygenase-2\) Luciferase Knock-In Mouse](#)

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INVENTORS

- ▶ Herschman, Harvey R.

OTHER INFORMATION

KEYWORDS

research tools; mouse models

CATEGORIZED AS

- ▶ [Research Tools](#)
- ▶ [Animal Models](#)

RELATED CASES

2010-534-0

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