Mouse Model Deficient for the Proton Sensing Gpcr T-cell Death-associated Gene 8 (tdag)

Tech ID: 20140 / UC Case 2006-624-0

BACKGROUND

T-cell death-associated gene 8 (TDAG8) functions as a proton sensing GPCR. TDAG8 was originally proposed to bind pro-inflammatory lipids. More recent studies have challenged the identification of lipid agonists for TDAG8 and have suggested that it functions mainly as a proton sensor.

INNOVATION

Researchers at UCLA have developed a mouse model deficient for TDAG8. It was confirm by using this model that the inactivation of TDAG8 proton sensor abolishes acid-induced production of the secondary messenger cyclic AMP in immune cells.

RELATED MATERIALS

- Information from Jackson Labs
- Differential proton sensitivity of related G protein-coupled receptors T cell death-associated gene 8 and G2A expressed in immune cells. PNAS 2005.

OTHER INFORMATION

To complete a **Ready-to-Sign Agreement** for this case, please view this document. [PDF]

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INVENTORS

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OTHER INFORMATION

KEYWORDS

research tool

CATEGORIZED AS

- **Medical**
  - Disease: Autoimmune and Inflammation
- **Research Tools**
  - Animal Models

RELATED CASES

2006-624-0

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- Nucleic Acid Tetramers For High Efficiency Multiplexed Cell Sorting
- Anti-Human Deoxycytidine Kinase (dCK) Monoclonal Antibody
- Novel Non-Immunogenic Positron Emission Tomography Gene Reporter
- Targeted Mass Spectrometry Approaches To Detect Kinase Pathways For Personalized Medicine
- G2A GPCR Deficient Mouse Model and G2A Monoclonal Antibody
- Proton-sensing G Protein-coupled Receptor 4 Knockout
- Derivation Of A Human Neuroendocrine Prostate Cancer Cell Line With Defined Oncogenic Drivers
- Novel Polyclonal Antibody to Detect a Bruton's Tyrosine Kinase Phosphorylation Site
- Non-Immunogenic Positron Emission Tomography Gene Reporter Systems

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