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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 confirmed 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

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OTHER INFORMATION

KEYWORDS

research tool

CATEGORIZED AS

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

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