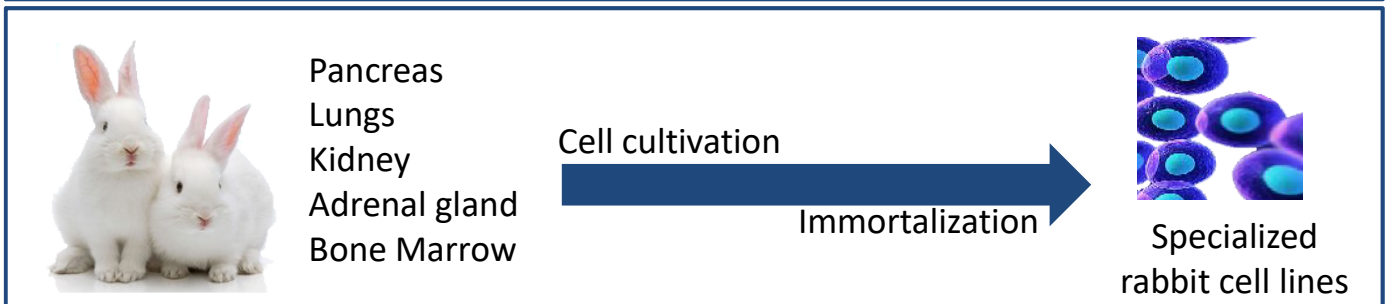


Specialized cell lines for antibody discovery process in New Zealand White rabbit

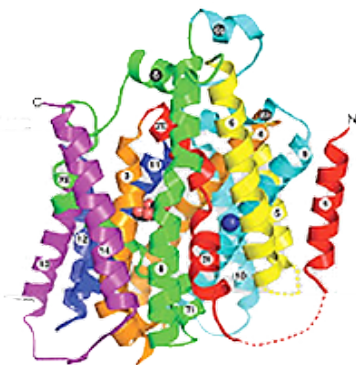
The group of **Cell Physiology & Cellular Engineering** developed a set of New Zealand White rabbit cell lines that can be used as a **syngeneic system** for **cell immunization in rabbit**. The novel rabbit cell lines were isolated from **different organs** to form a collection of cells with **diverse characteristics** and **protein expression capabilities**

A collection of cell lines with a broad range of characteristics



Example: Overexpression of the human sodium/glucose cotransporter 2 (hSGLT2) in the novel rabbit cell line “Kd#14/A5”

SGLT2 is a **complex** multipass integral membrane protein



After **genetic manipulation**, Kd#14/A5 expresses hSGLT2 at the cell surface (see fig.) and can be used to generate **anti-hSGLT2 immunoglobulins** in rabbit

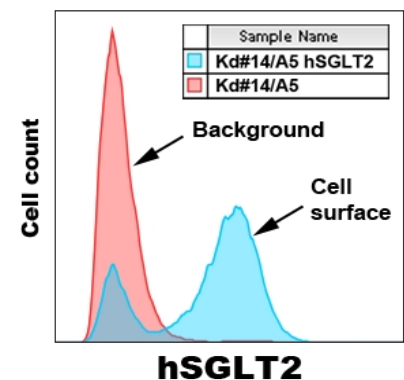


Fig: Flow cytometry
hSGLT2 cell surface staining

Contact Research Group

Prof. Dr. Jack Rohrer

Group head Cell Physiology & Cellular Engineering
Institute for Chemistry and Biotechnology
Zurich University of Applied Sciences
Einsiedlerstrasse 31
8820 Wädenswil, Switzerland
Phone: +41 (0) 58 934 5717

E-Mail: jack.rohrer@zhaw.ch

Website:

<https://www.zhaw.ch/en/lspm/institutes-centres/icbt/cell-biology-and-tissue-engineering/cell-physiology-and-cellular-engineering/>