



# Porcine B lymphoma cell lines

**Three porcine B cell lines (Murtaugh001, Murtaugh002, Murtaugh003) established by 3 rounds of limiting dilution from splenic and subiliac lymph node lymphomas.**

Surface marker staining identified the cells as CD21+, CD79a+, CD20+, PAX5+, and CD3- and cells were grown and easily passaged in cell culture. Transcriptome analysis validating the initial cytometric findings, confirming their identity as B cell lymphomas, and suggesting that they arose from germinal center centroblasts with aberrant control of BCL6 expression.

## Applications

- Investigate porcine B cell cancers and immune responses
- Grow viruses to assess host responses
- Virus propagation

## Key Benefits & Differentiators

- First and only porcine B cell line available.
- Highly proliferative: Cell lines grow for more than 60 passages (16 months) with a doubling time of 16 hours.
- Robust: Tolerate cryogenic storage and thawing.

## Technical information

**Organism:** *Sus scrofa* (pig)

**Tissue:** Lymphoma (subiliac lymph node and spleen tumors)

**Cell Type:** Porcine B cell lymphoma

**Morphology:** Round

**Culture properties:** Non-adherent, suspended, clustered. Doubling time of 16 hours

**Biosafety level:** BSL1

**Storage:** Liquid nitrogen. 50% FBS, 40% supplemented RPMI, 10% DMSO

**Growth Media:** RPMI media supplemented with 10mM HEPES buffer, 1X non-essential amino acids, 1mM sodium pyruvate, 50ug/ml gentamycin, 5U/ml penicillin-streptomycin and 5-10% FBS

**Propagation protocol:** Divide once per week at 1:5 ratio

## Researchers

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[External Link](http://vetmed.umn.edu) (vetmed.umn.edu)

## Publications

[\*Establishment and characterization of a porcine B cell lymphoma cell line.\*](#)

*Experimental Cell Research*, 390(2) May 2020

## Desired Partnerships

## Technology ID

20160314

## Category

Life Sciences/Research Tools

Agriculture &

Veterinary/Veterinary Medicine

## Learn more



These cell lines are fully developed and available for license. Please contact us to learn more.

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