

# 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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#### Publications

Establishment and characterization of a porcine B cell lymphoma cell line. Experimental Cell Research, 390(2) May 2020

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# Category

Life Sciences/Research Tools Agriculture & Veterinary/Veterinary Medicine

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# **Desired Partnerships**

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