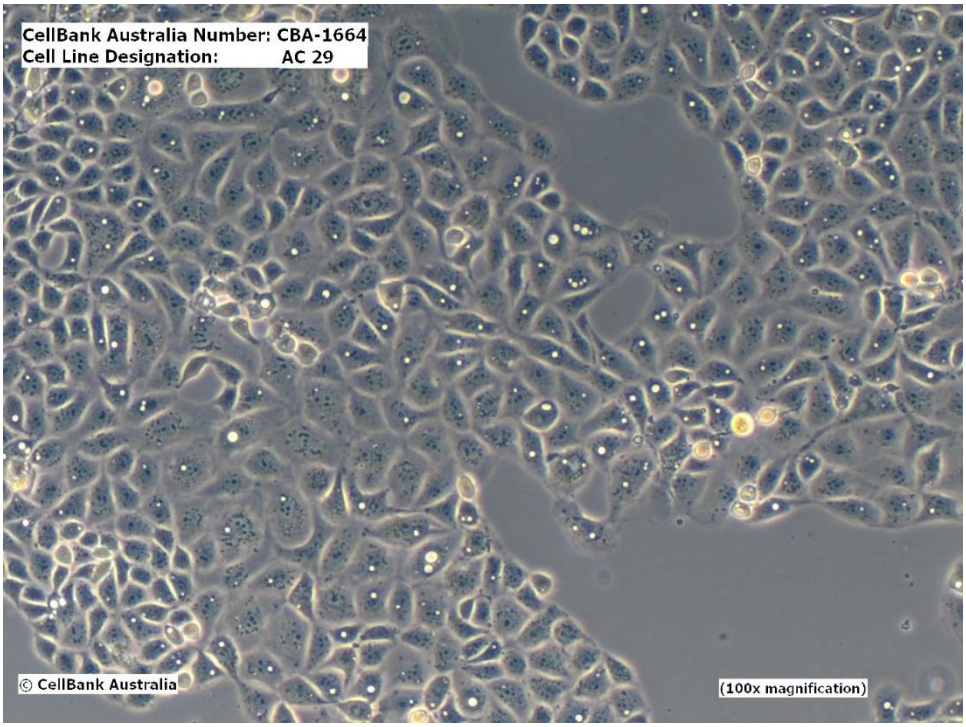
Confidence in cell lines. Integrity in research.

Cell Line Information Sheet – AC 29

CellBank Catalogue No.:	**CBA-1664**
Lot Number:	**16640919E**
Passage Number:	80
Total Cell Number:	2.7 x 10^6 cells
Expected Cell Viability:	93%
Cell Line Description:	AC29 is a mouse mesothelioma cell line. Mice (CBA strain, female, 6-8 weeks old) were exposed to crocidolite asbestos through intraperitoneal injection, resulting in tumour development (both ascites and solid tumours). Cultures were established from malignant mesothelial cells obtained from ascites fluid.
Organism:	Mouse (*Mus musculus*)
Strain:	CBA
Tissue:	Mesothelium, malignant mesothelial cells were obtained from ascites fluid
Growth Properties:	Adherent
Morphology:	Epithelial-like
Image:	

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Growth Medium:	RPMI 1640 (with 2mM L-Glutamine + 25mM HEPES) + 5% Foetal Calf Serum
Resuscitation	**Remove protective cryoflex layer around the ampoule prior to thawing.** Thaw the ampoule by gently agitating in a 37ºC waterbath; thawing should be rapid (around 2 minutes). A centrifugation step to remove the cryoprotectant after thawing is necessary for this cell line. For Lot 16640911E thaw 1 vial into 1xT75
Subculturing Procedure:	**Medium Renewal:** 2-3 times per week. **Subcultivation ratio**: 1:8-1:16, Seeding density 0.6-1.0 x10^4 cells/cm^2 Split subconfluent cultures (70-80%). Harvest the cells using 0.05% Trypsin/EDTA at 37°C for 5 minutes. **Culture conditions:** Incubate the culture at 37ºC with 5% CO_2. **Cryoprotectant Medium:** 10% DMSO + 90% FCS
Safety Precaution:	Where cell lines are shipped as frozen ampoules, there is a small risk that the ampoule may be pressurised due to the expansion of trapped liquid nitrogen and could explode on warming. It is recommended that persons handling ampoules of frozen cells wear appropriate personal protective equipment including laboratory coat, insulated gloves and a full protective face shield.
Handling Procedure for Frozen Cells:	Upon receipt, frozen ampoules should be transferred directly to liquid nitrogen storage without delay, if not to be used immediately. Storage at -80°C may result in loss of viability
Biosafety Level:	Cell line of mouse origin. CellBank Australia recommends that cell lines be handled at category PC-2* containment level. *AS/NZS 2243.3:2010

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Additional Information:	Cells are tumourigenic in syngeneic immunocompetent mice. CBA cells did not adapt as well to in vitro conditions, with a lower proportion of cell lines relative to BALB/c cells. AC29 cells express WT1 and have been used in the study of Wilms' tumour.
Depositor:	Richard Lake - University of Western Australia
References:	**Original Reference** Davis MR, Manning LS, Whitaker D, Garlepp MJ, Robinson BW (1992) Establishment of a murine model of malignant mesothelioma. Int J Cancer 52: 881-886. PubMed: 1459729
Use Restrictions:	These cells are distributed for research purposes only - refer to the Sales Terms and Conditions.
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