

MDBK (NBL-1) | 600396

General information

Description	MDBK, Madin-Darby Bovine Kidney cells (Madin-Darby-epithelium, NBL-1), epithelial cells of the kidney of the cow. MDBK cells are highly susceptible to a wide range of viruses, including Bovine coronavirus, Bovine herpesvirus 1, Bovine herpesvirus 2, Bovine morbillivirus, Bovine parainfluenza virus 1, Bovine parainfluenza virus 2, Bovine respiratory syncytial virus, Bovine syncytial virus, Bovine viral diarrhoea virus 1, Bovine viral diarrhoea virus 2, Bovine viral diarrhoea virus 3, Bovine viral diarrhoea virus 4, Bovine viral diarrhoea virus 5, Bovine viral diarrhoea virus 6, Bovine viral diarrhoea virus 7, Bovine viral diarrhoea virus 8, Bovine viral diarrhoea virus 9, Bovine viral diarrhoea virus 10, Bovine viral diarrhoea virus 11, Bovine viral diarrhoea virus 12, Bovine viral diarrhoea virus 13, Bovine viral diarrhoea virus 14, Bovine viral diarrhoea virus 15, Bovine viral diarrhoea virus 16, Bovine viral diarrhoea virus 17, Bovine viral diarrhoea virus 18, Bovine viral diarrhoea virus 19, Bovine viral diarrhoea virus 20, Bovine viral diarrhoea virus 21, Bovine viral diarrhoea virus 22, Bovine viral diarrhoea virus 23, Bovine viral diarrhoea virus 24, Bovine viral diarrhoea virus 25, Bovine viral diarrhoea virus 26, Bovine viral diarrhoea virus 27, Bovine viral diarrhoea virus 28, Bovine viral diarrhoea virus 29, Bovine viral diarrhoea virus 30, Bovine viral diarrhoea virus 31, Bovine viral diarrhoea virus 32, Bovine viral diarrhoea virus 33, Bovine viral diarrhoea virus 34, Bovine viral diarrhoea virus 35, Bovine viral diarrhoea virus 36, Bovine viral diarrhoea virus 37, Bovine viral diarrhoea virus 38, Bovine viral diarrhoea virus 39, Bovine viral diarrhoea virus 40, Bovine viral diarrhoea virus 41, Bovine viral diarrhoea virus 42, Bovine viral diarrhoea virus 43, Bovine viral diarrhoea virus 44, Bovine viral diarrhoea virus 45, Bovine viral diarrhoea virus 46, Bovine viral diarrhoea virus 47, Bovine viral diarrhoea virus 48, Bovine viral diarrhoea virus 49, Bovine viral diarrhoea virus 50, Bovine viral diarrhoea virus 51, Bovine viral diarrhoea virus 52, Bovine viral diarrhoea virus 53, Bovine viral diarrhoea virus 54, Bovine viral diarrhoea virus 55, Bovine viral diarrhoea virus 56, Bovine viral diarrhoea virus 57, Bovine viral diarrhoea virus 58, Bovine viral diarrhoea virus 59, Bovine viral diarrhoea virus 60, Bovine viral diarrhoea virus 61, Bovine viral diarrhoea virus 62, Bovine viral diarrhoea virus 63, Bovine viral diarrhoea virus 64, Bovine viral diarrhoea virus 65, Bovine viral diarrhoea virus 66, Bovine viral diarrhoea virus 67, Bovine viral diarrhoea virus 68, Bovine viral diarrhoea virus 69, Bovine viral diarrhoea virus 70, Bovine viral diarrhoea virus 71, Bovine viral diarrhoea virus 72, Bovine viral diarrhoea virus 73, Bovine viral diarrhoea virus 74, Bovine viral diarrhoea virus 75, Bovine viral diarrhoea virus 76, Bovine viral diarrhoea virus 77, Bovine viral diarrhoea virus 78, Bovine viral diarrhoea virus 79, Bovine viral diarrhoea virus 80, Bovine viral diarrhoea virus 81, Bovine viral diarrhoea virus 82, Bovine viral diarrhoea virus 83, Bovine viral diarrhoea virus 84, Bovine viral diarrhoea virus 85, Bovine viral diarrhoea virus 86, Bovine viral diarrhoea virus 87, Bovine viral diarrhoea virus 88, Bovine viral diarrhoea virus 89, Bovine viral diarrhoea virus 90, Bovine viral diarrhoea virus 91, Bovine viral diarrhoea virus 92, Bovine viral diarrhoea virus 93, Bovine viral diarrhoea virus 94, Bovine viral diarrhoea virus 95, Bovine viral diarrhoea virus 96, Bovine viral diarrhoea virus 97, Bovine viral diarrhoea virus 98, Bovine viral diarrhoea virus 99, Bovine viral diarrhoea virus 100.
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Organism	Cow
Tissue	Kidney
Synonyms	MDBK (NBL-1), NBL-1, Madin-Darby-epithelium, Madin-Darby-epithelium cells

Genetic information

Breed/Subspecies	Bos taurus
Age	Adult
Gender	Male
Morphology	Epithelial cells
Growth properties	Adherent, Epithelial

References and safety

Citation	MDBK (NBL-1) (Cytion 600396)
Biosafety level	1
NCBI_TaxID	9913

 $\| \cdot \|_{\infty}^{\text{vec}}$, $\| \cdot \|_F$, $\| \cdot \|_2$, $\| \cdot \|_1$, $\| \cdot \|_0$, $\| \cdot \|_{\text{TV}}$ (BVD).

本報告係根據「個人資料保護法」第 30 條之規定，向社會大眾公開。如有任何關於本報告內容之疑義或錯誤之處，請逕向本公司資料管理人員洽詢。

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EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO₃, w: EBSS (XXXXX XXXXXXXX Cytion 820100a)

□□□□ □□□□□□ 10% FBS □-1% NEAA

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Figure 1. Schematic diagram of the experimental setup. The experimental setup includes a laser source, a beam splitter, a PBS, a T25, a 3-5 μm PBS, and a 3D camera. The laser source emits a beam that is split by the beam splitter into two paths. One path goes through the PBS and the T25, and the other path goes through the 3-5 μm PBS. The two paths are then combined by the beam splitter and captured by the 3D camera.

$$1 \times 10^4 \text{ "}/\text{mm}$$

3. 3.3.3.3

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Cell viability was determined by the 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide (MTT) assay. Cells were seeded into 96-well plates and treated with various concentrations of FBS (0, 10, 20, 40, 60, 80, 100%) and 10% DMSO. After 24 hours of treatment, the cells were stained with MTT (0.5 mg/ml) for 4 hours. The absorbance was measured at 550 nm using a microplate reader. The results were expressed as the mean ± SD of three independent experiments.

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**Thawing and
Culturing Cells**

1. 将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。
2. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-150°C 液氮中冷冻保存。
3. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。
4. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于70% 乙醇中保存。
5. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于15 μl 8 μl 的细胞悬液中。
6. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于300 x g 3 分钟的离心。
7. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于10 μl 的细胞悬液中。
8. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-150°C 液氮中冷冻保存。

**Incubation
Atmosphere**

37°C, 5% CO₂, 饱和湿度

Flask Coating

无涂层

**Freezing
Procedure**

将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-78°C 液氮中冷冻保存。

**Shipping
Conditions**

将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-78°C 液氮中冷冻保存。

**Storage
Conditions**

将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-150 至 196 °C 液氮中冷冻保存。

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Sterility

将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-78°C 液氮中冷冻保存。

将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-78°C 液氮中冷冻保存。