

HT55 | 305018

HT55

Description	HT55 is a human colorectal adenocarcinoma cell line, established from a 54-year-old male patient with a primary tumor in the sigmoid colon. The cell line is characterized by the presence of the following mutations: p.Arg1463Ser, p.Asn581Tyr, p.Lys241Ter (K241N), p.Arg213Leu. HT55 cells are highly tumorigenic in nude mice and form large, well-differentiated tumors. The cell line is sensitive to WNT/β-catenin, APC, and other signaling pathways.
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Organism	Human
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Tissue	Colorectal
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Disease	Colorectal adenocarcinoma
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Applications	Cell culture, drug screening, WNT/APC signaling pathway studies, tumor formation assays, cell cycle analysis, and other applications.
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Synonyms	HT55
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HT55

Age	54 years
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Gender	Male
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Ethnicity	Chinese
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Morphology	Epithelial cells
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Cell type	Colorectal adenocarcinoma
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Growth properties	Highly tumorigenic
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HT55

Citation	HT55 (Cytion: 305018)
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Biosafety level	1
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NCBI_TaxID	9606
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CellosaurusAccession CVCL_1294

HT55-305018

Mutational profile p.Gln1131Ter, p.Gln1303Ter, p.Arg1463Ser, p.Asp1463Ser

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

Supplements 10% FBS

Dissociation Reagent

Doubling time 28

Subculturing Cells are grown in 25 cm² flasks in EMEM medium supplemented with 10% FBS. When cells reach confluence, they are trypsinized and seeded into new flasks at a density of 1 x 10⁵ cells per flask. The medium is replaced every 2-3 days.

Split ratio 1:5

Seeding density 1 x 10⁵ cells per flask

Fluid renewal 2-3 times per week

Freeze medium Cells are frozen in a medium containing 10% FBS and 10% DMSO. The cells are seeded into new flasks at a density of 1 x 10⁵ cells per flask.

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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孵育箱中培养。
2. 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-150°C超低温冰箱中保存。
3. 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孵育箱中培养。
4. 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70%相对湿度中培养。
5. 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15" x 8" x 8"的培养箱中培养。
6. 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300 x g离心3分钟，然后将细胞悬液置于-150°C超低温冰箱中保存。
7. 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10" x 10" x 10"的培养箱中培养。
8. 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-150°C超低温冰箱中保存。

Incubation
Atmosphere

37°C, 5% CO₂, 饱和湿度

Shipping
Conditions

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-78°C超低温冰箱中保存。

Storage
Conditions

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-150°C超低温冰箱中保存。

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