

HEK293-FAP | 305419

HEK293-FAP

Description

HEK293-FAP is a HEK293 cell line stably expressing the human Fibroblast Activation Protein (FAP). FAP is a type I transmembrane protein with a large extracellular domain containing two cysteine-rich regions and a catalytic domain. The catalytic domain is a member of the serine protease family and is responsible for the FAP's activity as a collagenase. FAP is involved in various biological processes, including cell migration, invasion, and tumor progression. HEK293-FAP cells are used for studying FAP function and for the development of FAP inhibitors.

Organism

HEK293

Tissue

HEK293 cells

HEK293-FAP

Age

HEK293

Gender

HEK293

Morphology

HEK293 cells

Growth properties

HEK293 cells, adherent

HEK293-FAP

Citation

HEK293-FAP (HEK293 cells expressing FAP) Cytion 305419

Biosafety level

1

NCBI_TaxID

9606

GMO Status

GMO-S1: HEK293 cells expressing FAP (FAP) HEK293 cells expressing FAP (FAP) HEK293 cells expressing FAP (FAP)

HEK293-FAP

Receptors expressed

FAP (Seprase DPPIV)

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Culture Medium	RPMI 1640, w: 2.0 mM CaCl_2 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)
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Supplements	10% FBS, 1 mM CaCl_2 , 10 mM HEPES, 1% NEAA. Geneticin (G418-Sulfat) 1 $\mu\text{g}/\text{mL}$
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Dissociation Reagent	EDTA
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Subculturing	Cells are grown in 24-well plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates.
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Fluid renewal	2-3 times per week
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Post-Thaw Recovery	Cells are grown in 24-well plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates.
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Freeze medium	Cells are grown in 24-well plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates.
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Thawing and Culturing Cells	- Cells are grown in 24-well plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. - Cells are grown in 24-well plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. - Cells are grown in 24-well plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. - Cells are grown in 24-well plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. - Cells are grown in 24-well plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. - Cells are grown in 24-well plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. - Cells are grown in 24-well plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. - Cells are grown in 24-well plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in fresh medium. Cells are then seeded into new plates.
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Incubation
Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

Adherent cells: 100%
Non-adherent cells: 100%

Freezing
Procedure

1. Harvest cells by trypsinization and centrifugation at 300g for 5 min. 2. Wash cells with PBS. 3. Resuspend cells in freezing medium (10% FBS, 40% serum-free medium, 50% FBS). 4. Aliquot cells into 1 ml vials. 5. Freeze cells at -78°C.

Shipping
Conditions

1. Harvest cells by trypsinization and centrifugation at 300g for 5 min. 2. Wash cells with PBS. 3. Resuspend cells in freezing medium (10% FBS, 40% serum-free medium, 50% FBS). 4. Aliquot cells into 1 ml vials. 5. Freeze cells at -78°C.

Storage
Conditions

1. Harvest cells by trypsinization and centrifugation at 300g for 5 min. 2. Wash cells with PBS. 3. Resuspend cells in freezing medium (10% FBS, 40% serum-free medium, 50% FBS). 4. Aliquot cells into 1 ml vials. 5. Freeze cells at -150 °C for 196 hours. 6. Thaw cells at 37°C.

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Sterility

1. Harvest cells by trypsinization and centrifugation at 300g for 5 min. 2. Wash cells with PBS. 3. Resuspend cells in freezing medium (10% FBS, 40% serum-free medium, 50% FBS). 4. Aliquot cells into 1 ml vials. 5. Freeze cells at -78°C. 6. Thaw cells at 37°C. 7. PCR screening for mycoplasma contamination.