

HEK293-FAP | 305419

HEK293-FAP

Description

HEK293-FAP is a HEK293 cell line stably expressing the FAP protein. The cells are adapted for growth in suspension and are suitable for large-scale production of recombinant proteins. The FAP protein is expressed as a soluble protein in the culture medium. The cells are maintained in DMEM supplemented with 10% FBS. The FAP protein is secreted into the culture medium and can be purified by affinity chromatography. The FAP protein is a member of the FAP family and is involved in the regulation of cell growth and differentiation. The FAP protein is a type I transmembrane protein with a large extracellular domain. The FAP protein is expressed in various tissues, including the brain, heart, and muscle. The FAP protein is a potential target for drug development. The HEK293-FAP cell line is a valuable tool for studying the function of the FAP protein and for producing recombinant FAP protein for research and clinical applications.

Organism Human

Tissue HEK293

Disease HEK293/HEK293T; HEK293 (HEK293)

Applications HEK293-FAP; HEK293-FAP; HEK293-FAP (CAF); HEK293-FAP

HEK293-FAP

Age HEK293

Gender HEK293

Morphology HEK293

Cell type HEK293

Growth properties HEK293, HEK293

HEK293-FAP

Citation HEK293-FAP (HEK293-FAP Cytion 305419)

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_6G23

Product sheet

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GMO Status GMO-S1: HEK293 (FAP)

Receptors expressed FAP (Seprase DPPIV)

Culture Medium RPMI 1640, w: 2.0 mM, w: 2.0 g/L NaHCO₃ (Cytion 820700a)

Supplements 10% FBS, 1 mM, 10 mM HEPES, 1% NEAA. Geneticin (G418-Sulfat) 1 µg/ml

Dissociation Reagent EDTA

Doubling time 24–36 h

Subculturing 1:2 to 1:5, 2–3 passages, CO₂

Split ratio 1:5

Seeding density 2 × 10⁴ to 4 × 10⁵ cells/cm²

Fluid renewal 2–3 times

Post-Thaw Recovery 1:2 to 1:3, T25, 24 h

Freeze medium (FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the cells in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a flask containing 10-15 ml of medium. Incubate at 37°C with 5% CO₂.
3. Monitor cell growth and confluency. Once cells reach 70-80% confluency, they are ready for passaging.
4. Perform a trypsin digest to harvest the cells. Add trypsin to the medium and incubate for 2-3 minutes.
5. Neutralize the trypsin with serum-containing medium. Centrifuge the cells at 300 x g for 3 minutes.
6. Resuspend the cells in fresh medium. Seed into a new flask with 10 ml of medium.
7. Repeat the process for subsequent passages.
8. Maintain cells in a humidified incubator at 37°C with 5% CO₂.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Harvest cells at 70-80% confluency. Resuspend in freezing medium and store at -80°C.

Shipping Conditions Ship cells in dry ice at -78°C.

Storage Conditions Store cells in liquid nitrogen at -150°C for up to 196 days.

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Sterility Cells are provided in a sterile, virus-free environment. PCR screening is performed to ensure the absence of mycoplasma contamination.