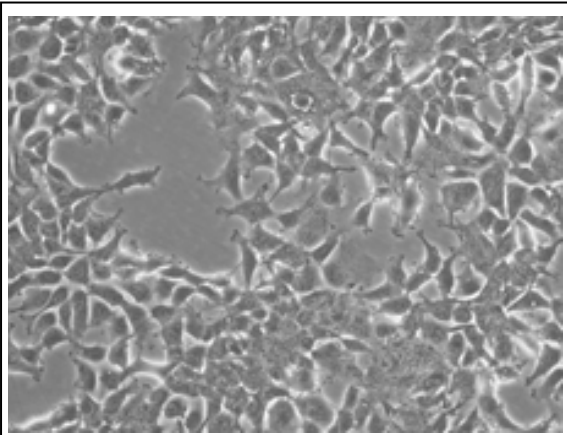


HEK 293 cells

Handling suggestions for HEK 293 cells

HEK 293 cells are a transformed cell line derived from human embryonic kidney preparations. Because they are experimentally transformed, HEK 293 cells are not a particularly good model for normal kidney cells, but they are easy to culture and transfect, and are commonly used as a model for examining a transfected receptor or intracellular protein. They have several intact signaling pathways that can be exploited, particularly ERK, p38 MAPK and JNK pathways, which can be used to monitor specific transfected receptor-mediated signaling events. The cells are less useful for examining PI3-kinase mediated signaling, as they typically display constitutively active Akt.

Warning: these cells contain adenovirus and should be handled with care.



HEK293 cells at 20X magnification

Cell type: epithelial

Source: embryonic kidney

Growth: adherent

Organism: Human

Sources: ATCC Cat# CRL-1573

ECACC Cat# 85120602

Suggested media:

DMEM (Gibco Cat#11885) supplemented with 10% FBS (Gibco)

1% Sodium pyruvate (Gibco Cat#11360)

1% Pen Strep Glutamine (Gibco Cat#10378)

Culturing suggestions:

Split 1:5 - 1:10 when 70-90% confluent.

Detectable signaling pathways:

MAPK

PI3-K – high basal Akt phosphorylation

Known Receptors:

EGFR

Warning: these cells contain adenovirus and should be handled with care.