HeLa Nuclear Morphology Chromobody®-TagRFP

Only for research applications, not for diagnostic or therapeutic use

material provided

Cells:	*HeLa Nuclear Morphology Chromobody®-TagRFP* cells
Format:	5 x 10^6 frozen cells in FCS free cryopreservation reagents PAA CryoMaxx*

cellular background

Cell Line Designations:	*HeLa Nuclear Morphology Chromobody®-TagRFP*
Source:	human
Tissue:	cervix
Disease:	adenocarcinoma
Cell Type:	epithelial
Growth Properties:	adherent
Cell Culture Media:	Dulbecco's Modified Eagle's Medium with 4.5 g/L glucose, 110 mg/L sodium pyruvate and L-gluthamine 10% FCS (fetal bovine serum) 50 µg/ml Gentamycin (optional: 1 mg/ml G418)
Assay Medium	For live cell assays we recommend using DMEM without phenol red (no auto-fluorescence of phenole red → improved signal/ noise ration)

stably integrated Chromobody® construct

Source:	*Lama pacos*, *Aequorea macrodactyla*
Type:	cDNA expressing an antibody fragment (isolated from *Lama pacos*) specific against Lamin fused to TagRFP (monomeric red fluorescent protein from Evrogen isolated from *Aequorea macrodactyla*)
Expression Product:	cAb-Lamin-TagRFP Chromobody®
Protein:	non-toxic, non-hazardous, non-infectious

Biosafety Level (according to Central Committee of Biological Safety, Germany, ZKBS): 1

quality control

All cell lines supplied by ChromoTek undergo comprehensive quality control.

This cell line tested negative for Mycoplasma using PAA MycoTrace Mycoplasma Detection Kit.

Cell viability:	> 95% after thawing
Stability of transgene:	> 95% after 3 months without G418 selection

Thawing of Cryopreserved Cells

Cryopreserved cells can be thawed by the following procedures:

1. Centrifugation
   > Remove cells from storage and thaw quickly in a +37 °C water bath. We recommend eye protection by using approved safety goggles. We also suggest the use of safety gloves to protect uncovered skin.
   > Place 1 to 2 ml of thawed cells in ~25 ml of complete growth medium. Mix cell suspension gently.
   > Centrifuge the cells at ~80 x g for 2 to 3 min.
   > Check clarity of the supernatant and visibility of a consolidated cell pellet. Discard supernatant without disturbing the cells.
   > Gently resuspend the cells in complete growth medium and perform a viable cell count.
   > Plate the cells.

2. Direct plating
   > Remove cells from storage and thaw quickly in a +37 °C water bath.
   > We recommend eye protection by using approved safety goggles. We also suggest the use of safety gloves to protect uncovered skin.
   > Plate cells directly with complete growth medium. Use 10 to 20 ml of complete medium per 1 ml of frozen cells.
   > Culture cells for 2 to 4 h. Replace medium with fresh complete growth medium to remove cryopreservative.

We recommend thawing procedure 1.

*Caution: CryoMaxx preservation reagents contain Dimethyl Sulfoxide (DMSO). Do not breathe gas/fumes/vapour/spray. Avoid contact with eyes and skin. Irritant to eyes, respiratory system and skin. S23 S24/25