HCT 116 p300 KO [F2] Cell Line

Catalogue number: 153185
Sub-type: Continuous
Images:

Contributor

Inventor: Carlos Caldas
Institute: Cancer Research UK Cambridge Institute
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: HCT 116 p300 KO [F2] Cell Line

Alternate name:

Class:
Conjugate:
Description: The HCT 116 p300 KO Cell Line is a tool for the in vitro study of p300 in colon carcinoma, and specifically of its role in p53-dependent apoptosis, cellular adhesion and migration. Cell lines available are p300 WT (HCT116), p300 KO Clone D10 (HCT116), p300 KO Clone F5 (HCT116), p300 KO Clone F2 (HCT116). Experiments conducted should be using at least 2 of the 3 KO cell lines. The best 2 KO clones are D10 and F5. Anyone requesting the cell line should use the parental cell line that the KOs were generated from. The p300 KO lines demonstrate an aggressive cancer phenotype in vitro, with loss of cell-cell adhesion, defects in cell-matrix adhesion, and increased migration through collagen matrices. p300 is a transcriptional cofactor involved in regulating multiple cellular processes including cell cycle regulation, proliferation, differentiation, apoptosis, DNA damage repair and adhesion properties. Somatic inactivating mutations of p300 are associated with several cancers including breast, colorectal and gastric cancers. CBP was not manipulated in this cell line
Purpose:
Parental cell: HCT 116
Organism: Human
Tissue: Colon
Model: Knock-Out
Gender:
Isotype:
Reactivity:
Selectivity:
Host:
Immunogen:

Immunogen UNIPROT ID:
Sequence:
Growth properties: Adhesion properties; invasion; migration
Production details:
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: p300

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:
Application notes: CBP was not manipulated in this cell line

Handling

Format: Frozen
Concentration:
Passage number:
Growth medium: McCoy's 5A medium + 10% FCS
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions:
Shipping conditions: Dry ice

Related tools

Related tools: HCT 116 p300 WT Cell Line ; HCT 116 p300 KO [F5] Cell Line ; HCT 116 p300 KO

[D10] Cell Line ; HCT 116 p300 KO Rescue Cell Line

References

References: ?-HPV 5 and 8 E6 disrupt homology dependent double strand break repair by attenuating BRCA1 and BRCA2 expression and foci formation. ; Wallace et al. 2015. PLoS Pathog. 11(3):e1004687. PMID: 25803638. ; Iyer et al. 2007. Oncogene. 26(1):21-9. PMID: 16878158. ; Bundy et al. 2006. Cancer Res. 66(15):7606-14. PMID: 16885360. ; Metabolic consequences of p300 gene deletion in human colon cancer cells. ; p300 is required for orderly G1/S transition in human cancer cells. ; Krubasik et al. 2006. Br J Cancer. 94(9):1326-32. PMID: 16622451. ; Absence of p300 induces cellular phenotypic changes characteristic of epithelial to mesenchyme transition. ; Iyer et al. 2004. Proc Natl Acad Sci U S A. 101(19):7386-91. PMID: 15123817. ; p300 regulates p53-dependent apoptosis after DNA damage in colorectal cancer cells by modulation of PUMA/p21 levels.