HCT 116 p300 KO Rescue Cell Line

Catalogue number: 153186 Sub-type: Continuous Images:

Contributor

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Tool details

***FOR RESEARCH USE ONLY**

Name: HCT 116 p300 KO Rescue Cell Line

Alternate name:

Class:

Conjugate:

Cancer Tools.org Description: This p300 rescue cell line was generated from p300 KO Clone F5. 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 p53dependent 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.

Purpose: Parental cell: HCT 116 **Organism:** Human Tissue: Colon Model: Knock-In Gender: **Isotype: Reactivity:** Selectivity: Host:

Immunogen: Immunogen UNIPROT ID: Sequence: Growth properties: Adhesion properties; invasion; migration Production details: Formulation: **Recommended controls:** HCT 116 parental line **Bacterial resistance:** Selectable markers: Additional notes: CBP was not manipulated in this cell line

Target details

Target: p300

Target alternate names: Cancer Tools.org

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: Liquid Nitrogen 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 [F2] Cell Line ; HCT 116 p300 KO [D10] 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. ; lyer 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. ; lyer 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.