

HCT 116 p300 KO [D10] Cell Line

Catalogue number: 151479

Sub-type: Continuous

Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: HCT 116 p300 KO [D10] 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: 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:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes:

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: McCoy's 5A medium + 10% FCS

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions: -20° C

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 Rescue Cell Line

References

References: Nateri et al. 2007. EMBO J. 26(23):4891-901. PMID: 17972914. ; ERK activation causes epilepsy by stimulating NMDA receptor activity.

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