

MDA MB-231 sgRNA1 & 2 cell line

Catalogue number: 161601

Tool type:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: MDA MB-231 sgRNA1 & 2 cell line

Alternate name:

Class:

Conjugate:

Description: The cells contain site-specific methylations in the BRCA1 promoter, which are analogous to the sites of methylation in breast cancer patients. Since, the direct effect of BRCA1 promoter hypermethylation in diagnosis and prognosis of breast and ovarian tumors has been largely obscure because of lack of proper in vitro and in vivo models these cell lines could be of potential research interest to others

Purpose:

Parental cell: MDA MB 234

Organism: Human

Tissue: Breast

Model: Epigenetic modification

Gender: Female

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties: Adherent

Production details: Cells with wildtype unmethylated BRCA1 background were infected with lentiviruses that encode for deadCas9- DNMT3A fusion protein and synthetic guide RNAs under the control of a tet-off promoter. After successful infection, the cells were then established following FACS

sorting.

Formulation:

Recommended controls: MDA-MB-231 sgRNA Control cell line, MCF-7 sgRNA1 controls Control cell line , MCF-7 sgRNA2 Control cell line

Bacterial resistance:

Selectable markers:

Additional notes: 1?g/ml of doxycycline for 12 hours can stop the eGFP signal from pCL-CTIG and BRCA1 hypermethylation will be reverted.

Patient details

Cancer subtype:

Cancer stage/grade:

Biopsy site:

Patient ethnicity:

Treatment history:

Engraftment details

Mice passaged?:

Engraftment site:

Sample type:

Host strain:

Histology:

Genetic data:

CancerTools.org

Target details

Target:

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application: For studying the BRCA1 non mutated and hypermethylated breast cancer tumorigenesis and drug development

Application notes: Pen-Strep, Invitrogen, Cat No. 15140129

Handling

Format: Frozen

Concentration:

Passage number: P3 (Post Generation)

Growth medium: DMEM medium supplemented with 10% FBS and 1% Penicillin-Streptomycin

Temperature: 37° C

Atmosphere: 5% CO2

Volume:

Storage medium: 90% FBS + 1% Penicillin-Streptomycin + 10% sterile DMSO

Storage buffer:

Storage conditions: Liquid Nitrogen

Shipping conditions: Dry Ice

Related tools

Related tools:

References

References: <https://doi.org/10.1101/2022.04.30.490088>

CancerTools.org