

E3 STn Cell Line

Catalogue number: 151847

Sub-type: Continuous

Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: E3 STn Cell Line

Alternate name:

Class:

Conjugate:

Description: The E3 STn Cell Line is a mouse mammary carcinoma cell line E3 which expresses human MUC1 and Sialyl-Tn. Changes in the composition of glycans added to glycoproteins and glycolipids are characteristic of the change to malignancy. Sialyl-Tn (STn) is expressed by 2530% of breast carcinomas but its expression on normal tissue is highly restricted. Sialyl-Tn is an O-linked disaccharide that can be carried on various glycoproteins. One such glycoprotein MUC1 is expressed by the vast majority of br...

Purpose:

Parental cell: E3

Organism: Mouse

Tissue: Breast

Model: Knock-In

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: E3 cell line stably transfected with murine ST6GalNAc I leading to expression of

the MUC1 STn epitope. The E3 cell lines were developed from the 410.4 cell line by transfection of the hygromycin resistance gene with the MUC1 gene. Calcium phosphate transfection of E3 cells was performed using the pbabe-neo gene with or without the cDNA encoding murine B7.1. Stable transfection of murine ST6GalNAc I was performed to obtain the cell line E3-STn.

Formulation:

Recommended controls: E3 parental line

Bacterial resistance:

Selectable markers:

Additional notes: E3-hMUC1 stably transfected with murine ST6GalNAc I leading to expression of both MUC1 and STn

Target details

Target: mST6-Gal-NAc and MUC1

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes: E3-hMUC1 stably transfected with murine ST6GalNAc I leading to expression of both MUC1 and STn

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: Dulbecco's E4 medium containing 600 µg/ml G418, 200 µg/ml hygromycin and 10% fetal calf serum (FCS)

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions: Liquid Nitrogen

Shipping conditions: Dry ice

Related tools

Related tools:

References

References: Klungland et al. 1999. Proc Natl Acad Sci U S A. 96(23):13300-5. PMID: 10557315. ; Accumulation of premutagenic DNA lesions in mice defective in removal of oxidative base damage.

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