

A375P beta6-puro Cell Line

Catalogue number: 151626

Sub-type: Continuous

Images:

Contributor

Inventor: John Marshall

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: A375P beta6-puro Cell Line

Alternate name:

Class:

Conjugate:

Description: The A375P beta6-puro Cell Line is a useful model for studying the function and activity of beta 6 integrin when used as a matched pair with the parent A375 line. A375 melanoma cells endogenously express a variety of integrins, but not beta 6. These cell lines have been used to validate the activity and selectivity of AvB6-binding peptides.

Purpose:

Parental cell: A375P

Organism: Human

Tissue:

Model: Transgenic

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties: A375P melanoma cells stably expressing integrin beta 6

Production details: The human melanoma cell line A375P was infected with pBabe retroviruses encoding puromycin resistance or, in addition, cDNA for human integrin beta 6. Cells were selected in puromycin (1.25 ug/mL) followed by magnetic bead sorting, using 10D5 (mouse anti-avh6; Chemicon

International), according to the manufacturer's instructions (Dyna; Invitrogen). The avb6 expression can drift so recipients must check by flow cytometry after they have been in continuous passage, at least once a ...

Formulation:

Recommended controls: A375P parental line

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Integrin beta 6

Target alternate names:

Target background:

Molecular weight:

IC₅₀:

Applications

Application:

Application notes:

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: DMEM + 10S/1.25ug/ml puromycin. Antibiotic is not required all the time.

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions: Vapor phase of liquid nitrogen. Storage at -70° C will result in loss of viability.

Shipping conditions: Dry ice

Related tools

Related tools:

References

References: Hausner et al. 2009. Cancer Res. 69(14):5843-50. PMID: 19549907.; Targeted in vivo imaging of integrin alphavbeta6 with an improved radiotracer and its relevance in a pancreatic tumor model.; Hausner et al. 2009. Mol Imaging. 8(2):111-21. PMID: 19397856.; Evaluation of [64Cu]Cu-DOTA and [64Cu]Cu-CB-TE2A chelates for targeted positron emission tomography with an alphavbeta6-specific peptide.; Hausner et al. 2007. Cancer Res. 67(16):7833-40. PMID: 17699789.; Use of a peptide derived from foot-and-mouth disease virus for the noninvasive imaging of human cancer: generation and evaluation of 4-[18F]fluorobenzoyl A20FMDV2 for in vivo imaging of integrin alphavbeta6 expression with positron emission tomography.

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