MCF10A-PTENm-5 cell line

Catalogue number: 161208 Sub-type: Continuous Images:

Contributor

Inventor: Medical-Industrial Translational Research Center Institute: Fukushima Medical University Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: MCF10A-PTENm-5 cell line

Alternate name: 06M17013

Class:

Conjugate:

ZancerTools.org Description: Non-tumorigenic immortalized breast epithelial cell stably overexpressing mutant cancerrelated gene, PTEN (phosphatase and tensin homolog). PTEN is a multi-functional tumor suppressor that is mutated and lost in a large number of cancers at high frequency. Observed in prostate cancer, glioblastoma, endometrial, lung and breast cancer to varying degrees. Up to 70% of prostate cancer patients have been observed to have loss of expression of the gene. It is a part of the PI3K/AKT/mTOR pathway and mTOR inhibitors have been relatively ineffective in treating patients with PTEN loss.

Purpose:

Parental cell: MCF10A, a non-tumorigenic cell line from human mammarygland epithelium

Organism: Human **Tissue:** Mammarygland epithelium Model: Mutant Gender: Isotype: **Reactivity:** Selectivity: Host: Immunogen: Immunogen UNIPROT ID: Sequence: Growth properties: Adherent Production details:

Formulation: **Recommended controls: Bacterial resistance:** Selectable markers: Additional notes:

Target details

Target: Phosphatase and tensin homolog [PTEN]

Target alternate names:

Target background: Gene ID: 5728; References: DNA (mRNA): NM_000314.6; Protein: NP_000305.3

Molecular weight:

Ic50:

Applications

Application: Functional analysis of mutated genes, Drug screening Cancer **Application notes:**

Handling

Format: Frozen **Concentration:** Passage number: Growth medium: DMEM/Ham's F-12 supplemented with 5% heat-inactivated horse serum, 10 Â?g/ml insulin (human, recombinant), 5 Â?M forskolin, 0.5 Â?g/ml hydrocortisone, 20 ng/ml EGF (human, recombinant), 100 U/ml penicillin, and 100 Â?g/ml streptomycin Temperature: 37° C Atmosphere: Humidified incubator with 5%Â CO2 Volume: Storage medium: CELLBANKER 2 (Zenogen pharma) Storage buffer: Storage conditions: Liquid Nitrogen Shipping conditions: Dry ice

Related tools

Related tools:

References

References:

Cancer Tools.org