Overview

Sample Description

WI-38 - NORMAL HUMAN FETAL LUNG FIBROBLAST

Biopsy Source: Lung
Cell Type: Fibroblast
Tissue Type: Lung
Transformant: Untransformed
Species: Homo sapiens

Common Name: Human
Age at Sampling: 12 FW
Sex: Female
Race: Caucasian
Family: 1053
Family Member: 2
Relation to Proband: proband
Clinically Affected: No

Confirmation: Clinical summary/Case history

ISCN: 46,XX

Remarks: The WI-38 cell line was developed in July 1962 from lung tissue taken from a therapeutically aborted fetus of about 3 months gestational age. Cells released by trypsin digestion of the lung tissue were used for the primary culture. The cell morphology is fibroblast-like. The karyotype is 46,XX; normal diploid female. A maximum lifespan of 50 population doublings for this culture was obtained at the Repository. A thymidine labelling index of 86% was obtained after recovery. G6PD is isoenzyme type B. This culture of WI-38 is an expansion from passage 9 frozen cells obtained from the submitter.

Pricing

Commercial Pricing: $180.00
Academic and not-for-profit pricing: $100.00
NIA Grantees: $40.00

Characterizations

Sample Description

WI-38 - NORMAL HUMAN FETAL LUNG FIBROBLAST

PDL at Senescence: 50
PDL at Freeze: 44
Passage Frozen: 38

Identification of Species of Origin: Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis and by Chromosome Analysis.
Phenotypic Data

Remark The WI-38 cell line was developed in July 1962 from lung tissue taken from a therapeutically aborted fetus of about 3 months gestational age. Cells released by trypsin digestion of the lung tissue were used for the primary culture. The cell morphology is fibroblast-like. The karyotype is 46,XX; normal diploid female. A maximum lifespan of 50 population doublings for this culture was obtained at the Repository, A thymidine labelling index of 86% was obtained after recovery. G6PD is isoenzyme type B. This culture of WI-38 is an expansion from passage 9 frozen cells obtained from the submitter.

Publications

PubMed ID: 20602651

Li B, Jog SP, Reddy S, Comai L, WRN controls formation of extrachromosomal telomeric circles and is required for TRF2DeltaB-mediated telomere shortening Molecular and cellular biology28:1892-904 2008
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Dauth I, Krüger J, Hofmann TG, Homeodomain-interacting protein kinase 2 is the ionizing radiation-activated p53 serine 46 kinase and is regulated by ATM Cancer research67:1274-9 2007
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Singh NK, Singh NN, Androphy EJ, Singh RN, Splicing of a critical exon of human Survival Motor Neuron is regulated by a unique silencer element located in the last intron Molecular and cellular biology26:1333-46 2006
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Gosslau A, Chen M, Ho CT, Chen KY, A methoxy derivative of resveratrol analogue selectively induced activation of the mitochondrial apoptotic pathway in transformed fibroblasts Br J Cancer92(3):513-21 2005
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Michishita E, Park JY, Burneskiis JM, Barrett JC, Horikawa I, Evolutionarily conserved and nonconserved cellular localizations and functions of human SIRT proteins Molecular biology of the cell16:4623-35 2005
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Schwalder J, Paric E, Neff NF, Telomere and ribosomal DNA repeats are chromosomal targets of the bloom syndrome DNA helicase. BMC Cell Biol4:15:1833-42 2003
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Pereira-Smith OM, Stein GH, Robetorye S, Meyer-Demarest S. Immortal phenotype of the HeLa variant D98 is recessive in hybrids formed with normal human fibroblasts. J Cell Physiol 143:222-5 1990
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Kunisada T, Miller CD, Schneider EL. Ultraviolet light-induced DNA damage in transcribed sequences: no change in repair with age. Mutat Res 237:75-81 1990
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PubMed ID: 4007059

PubMed ID: 4007059

External Links

dbSNP dbSNP ID: 10119

Images

View karyotype

Culture Protocols

- **PDL at Senescence**: 50
- **PDL at Freeze**: 44
- **Passage Frozen**: 38
- **Split Ratio**: 1:4
- **Temperature**: 37°C
- **Percent CO2**: 5%

**Medium**: Eagle's Minimum Essential Medium with Earle's salts and non-essential amino acids

**Serum**: 15% fetal bovine serum Not inactivated

**Substrate**: None specified

**Subcultivation Method**: trypsin-EDTA