

NCI-H820 | 305841

General information

Description	NCI-H820 is a cell line derived from a patient with non-small cell lung cancer (NSCLC). It is characterized by the presence of a mutation in the EGFR gene (E746-A750del), which is a common mutation in NSCLC. The cell line is highly sensitive to EGFR inhibitors, such as osimertinib. NCI-H820 is a highly proliferative cell line that grows in the presence of serum. It is a good model for studying the effects of EGFR inhibitors on cancer cells.
Organism	Human
Tissue	Lung
Disease	Non-small cell lung cancer
Metastatic site	None
Synonyms	H820, H-820, NCIH820

Cell characteristics

Age	53 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Cell type	Epithelial
Growth properties	Highly proliferative

Additional information

Citation	NCI-H820 (Cytion 305841)
Biosafety level	1

Product sheet

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NCBI_TaxID 9606

CellosaurusAccession CVCL_1592

NCI-H820 - NCI-H820

Isoenzymes AK-1, 1 ES-D, 1 G6PD, B GLO-I, 2 Me-2, 2 PGM1, 1 PGM3, 1

Tumorigenic Yes, NCI-H820 NCI-H820

Mutational profile NCI-H820 TP53, NCI-H820, p.Thr284Pro (c.850A>C), NCI-H820

Karyotype NCI-H820; NCI-H820 = 69; NCI-H820 = 46 X 74

NCI-H820

Culture Medium RPMI 1640, w: 2.0 mM NCI-H820, w: 2.0 g/L NaHCO3 (NCI-H820 Cytion 820700a)

Supplements NCI-H820 5% FBS

Dissociation Reagent NCI-H820

Doubling time 65

Fluid renewal 2 X 3 NCI-H820

Freeze medium NCI-H820 NCI-H820, NCI-H820 NCI-H820 NCI-H820 (NCI-H820 FBS) + 10% DMSO NCI-H820 NCI-H820 NCI-H820 NCI-H820, NCI-H820

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Thawing and
Culturing Cells

1. 将细胞悬液缓慢解冻，并立即转移到含有 10% 胎牛血清 (FBS) 的完全培养基中。将细胞置于 37°C 孵育箱中过夜，使其贴壁。
2. 次日，更换为不含 FBS 的完全培养基，以诱导细胞分化。培养基中应含有 10% 胎牛血清 (FBS)。
3. 细胞在完全培养基中培养 37 小时后，应达到 80-90% 的汇合度。
4. 当细胞达到 80-90% 汇合度时，应进行传代。传代时，应将细胞悬液转移至含有 10% 胎牛血清 (FBS) 的完全培养基中。
5. 细胞在完全培养基中培养 37 小时后，应达到 80-90% 的汇合度。
6. 当细胞达到 80-90% 汇合度时，应进行传代。传代时，应将细胞悬液转移至含有 10% 胎牛血清 (FBS) 的完全培养基中。
7. 细胞在完全培养基中培养 37 小时后，应达到 80-90% 的汇合度。
8. 当细胞达到 80-90% 汇合度时，应进行传代。传代时，应将细胞悬液转移至含有 10% 胎牛血清 (FBS) 的完全培养基中。

Incubation
Atmosphere

37°C, 5% CO₂, 饱和湿度

Flask Coating

无需涂层

Shipping
Conditions

细胞应在 2-8°C 下运输，并应保持在完全培养基中。运输过程中应避免剧烈震荡。

Storage
Conditions

细胞应在 -150°C 下储存，并应保持在完全培养基中。储存时间应不超过 196 小时。

细胞特性

Sterility

细胞应通过 PCR 检测，以确保无支原体污染。检测结果应为阴性。