

[Open Peer Review on Qeios](#)

# HeLa

National Cancer Institute

## Source

National Cancer Institute. *HeLa*. NCI Thesaurus. Code C20226.

HeLa cells were developed from cervix adenocarcinoma of a 31-year-old Black female. The cells are positive for keratin by immunoperoxidase staining. HeLa cells have been reported to contain human papilloma virus 18 (HPV-18) sequences. P53 expression was reported to be low, and normal levels of pRB (retinoblastoma suppressor) were found. Four typical HeLa marker chromosomes have been reported. M1 is a rearranged long arm and centromere of chromosome 1 and the long arm of chromosome 3. M2 is a combination of short arm of chromosome 3 and long arm of chromosome 5. M3 is an isochromosome of the short arm of chromosome 5. M4 consists of the long arm of chromosome 11 and an arm of chromosome 19. HeLa Marker Chromosomes: One copy of M1, one copy of M2, four-five copies of M3, and two copies of M4 as revealed by G-banding patterns.