

人白血病 T 淋巴细胞 Jurkat, Clone E6-1 说明书

目录号: SCSP-513

细胞名称: Jurkat, Clone E6-1

细胞描述: 人白血病 T 淋巴细胞 Jurkat, Clone E6-1 由 Schneider 建立, 来源于一个 14 岁的男孩的外周血。该克隆是 Jurkat-FHCRC 细胞株的一个克隆 (Jurkat 的一个衍生株), 经佛波酯(phorbol esters)和外源凝集素 (lectins) 或抗 T3 单克隆抗体 (需要两种物质共同诱导) 诱导后可产生大量 IL-2。

物种: 人, 男性, 14 岁

组织: 外周血

细胞来源: 2018 年引进

生物安全等级: BSL-1

完全培养液配方: 见下方备注

批次/冻存日期: 详见 冻存管/培养瓶 标识

参考传代周期: 不超过 $3 \times 10^6/\text{ml}$, 建议将活细胞密度控制在 $1 \times 10^5 - 1 \times 10^6/\text{ml}$

参考传代密度: $1 \times 10^5/\text{ml}$

参考换液频率: 2-3 天

冻存液配方: 完全培养液 95%, DMSO 5%

细胞形态: 悬浮生长

支原体检测结果: 阴性

STR 鉴定结果:

D5S818: 9

D13S317: 8,12

D7S820: 8,12

D16S539: 11

vWA: 18

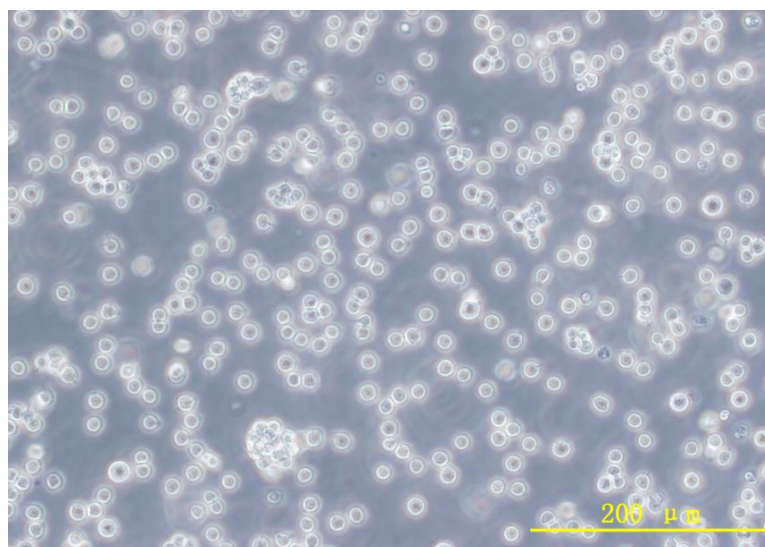
TH01: 6,9.3

Amelogenin: X,Y

TPOX: 8,10

CSF1PO: 11,12

Jurkat, Clone E6-1 细胞照片



参考文献:

Weiss A, et al. The role of T3 surface molecules in the activation of human T cells: a two-stimulus requirement for IL-2 production reflects events occurring at a pre-translational level. *J. Immunol.* 133: 123-128, 1984. PubMed: [6327821](#)

Gillis S, Watson J. Biochemical and biological characterization of lymphocyte regulatory molecules. V. Identification of an interleukin 2-producing human leukemia T cell line. *J. Exp. Med.* 152: 1709-1719, 1980. PubMed: [6778951](#)

Berninghausen O, Leippe M. Necrosis versus apoptosis as the mechanism of target cell death induced by *Entamoeba histolytica*. *Infect. Immun.* 65: 3615-3621, 1997. PubMed: [9284127](#)

Churchill MJ, et al. The rev-responsive element negatively regulates human immunodeficiency virus type 1 env mRNA expression in primate cells. *J. Virol.* 70: 5786-5790, 1996. PubMed: [8709194](#)

Kolanus W, et al. alphaLbeta2 integrin/LFA-1 binding to ICAM-1 induced by cytohesin-1 a cytoplasmic regulatory molecule. *Cell* 86: 233-242, 1996. PubMed: [8706128](#)

Gan W, Rhoads RE. Internal initiation of translation directed by the 5'-untranslated region of the mRNA for eIF4G, a factor involved in the picornavirus-induced switch from cap-dependent to internal initiation. *J. Biol. Chem.* 271: 623-626, 1996. PubMed: [8557663](#)

Tiffany HL, et al. Enhanced expression of the eosinophil-derived neurotoxin ribonuclease (RNS2) gene requires interaction between the promoter and intron. *J. Biol. Chem.* 271: 12387-12393, 1996. PubMed: [8647842](#)

Chan YJ, et al. Synergistic interactions between overlapping binding sites for the serum response factor and ELK-1 proteins mediate both basal enhancement and phorbol ester responsiveness of primate cytomegalovirus. *J. Virol.* 70: 8590-8605, 1996. PubMed: [8970984](#)

Kung SH, Medveczky PG. Identification of a herpesvirus saimiri cis-acting DNA fragment that permits stable replication of episomes in transformed T cells. *J. Virol.* 70: 1738-1744, 1996. PubMed: [8627695](#)

Bloom TJ, Beavo JA. Identification and tissue-specific expression of PDE7 phosphodiesterase splice variants. Proc. Natl. Acad. Sci. USA 93: 14188-14192, 1996. PubMed: [8943082](#)

Li YM, et al. Molecular identity and cellular distribution of advanced glycation endproduct receptors: relationship of p60 to OST-48 and p90 to 80K-H membrane proteins. Proc. Natl. Acad. Sci. USA 93: 11047-11052, 1996. PubMed: [8855306](#)

Linette GP, et al. Cross talk between cell death and cell cycle progression: BCL-2 regulates NFAT-mediated activation. Proc. Natl. Acad. Sci. USA 93: 9545-9552, 1996. PubMed: [8790367](#)

Miranda L, et al. Isolation of the human PC6 gene encoding the putative host protease for HIV-1 gp160 processing in CD4+ T lymphocytes. Proc. Natl. Acad. Sci. USA 93: 7695-7700, 1996. PubMed: [8755538](#)

Yang RY, et al. Expression of galectin-3 modulates T-cell growth and apoptosis. Proc. Natl. Acad. Sci. USA 93: 6737-6742, 1996. PubMed: [8692888](#)

Gibson S, et al. Functional LCK is required for optimal CD28-mediated activation of the TEC family tyrosine kinase EMT/ITK. J. Biol. Chem. 271: 7079-7083, 1996. PubMed: [8636141](#)

Ponton A, et al. The CD95 (APO-1/Fas) receptor activates NF-kappaB independently of its cytotoxic function. J. Biol. Chem. 271: 8991-8995, 1996. PubMed: [8621545](#)

August A, Dupont B. Association between mitogen-activated protein kinase and the zeta chain of the T cell receptor (TcR) with the SH2,3 domain of p56lck. J. Biol. Chem. 271: 10054-10059, 1996. PubMed: [8626561](#)

Kotanides H, Reich NC. Interleukin-4-induced STAT6 recognizes and activates a target site in the promoter of the interleukin-4 receptor gene. J. Biol. Chem. 271: 25555-25561, 1996. PubMed: [8810328](#)

Hartley D, Corvera S. Formation of c-Cbl-1-phosphatidylinositol 3-kinase complexes on lymphocyte membranes by a p56lck-independent mechanism. J. Biol. Chem. 271: 21939-21943, 1996. PubMed: [8702998](#)

Chen H, et al. Octamer binding factors and their coactivator can activate the murine PU.1 (spi-1) promoter. J. Biol. Chem. 271: 15743-15752, 1996. PubMed: [8663022](#)

Schneider U, et al. Characterization of EBV-genome negative "null" and "T" cell lines derived from children with acute lymphoblastic leukemia and leukemic transformed non-Hodgkin lymphoma. Int. J. Cancer 19: 621-626, 1977. PubMed: [68013](#)

Ronald Wange, personal communication

备注:

1. 人白血病 T 淋巴细胞 Jurkat, Clone E6-1 完全培养液配方 (100 ml) :

RPMI 1640 Medium (Invitrogen, 11875-093)	88 ml
FBS (Gibco)	10 ml
Glutamax (Invitrogen, 35050061)	1 ml
Sodium Pyruvate 100 mM Solution (Invitrogen, 11360070)	1 ml

2. 注意事项:

a) 该细胞为悬浮细胞，根据培养经验以及客户的反馈，传代时使用【半换液法】对细胞状态较为有利，因此我库建议您使用【半换液法】进行传代。同时，您在收到复苏的细胞后，请不要通过离心的方式收集细胞，可以直接向培养瓶中添加等体积的新鲜培养液，然后将细胞吹打均匀后移入两个新的 T25 培养瓶中继续培养即可。

b) 细胞对血清质量较为敏感，我库建议您使用进口大品牌优质血清进行培养。

c) 该细胞对细胞密度较为敏感，培养、传代时请注意保持细胞密度在合适的范围。

3. 我库冻存时，每支冻存管约含 1×10^6 细胞量，体积为 $500 \mu\text{l}$ ，预期存活率 70% ，建议复苏至 1 个 T25 培养瓶中。

中国科学院典型培养物保藏委员会细胞库/干细胞库