◆ YZWJs524/AB II-KO-06

(YZWJ; iPS cells with the most common HLA type in Japan(*1))

Clone ID	YZWJs524/AB II-KO-06	**Product**	Human iPS cells
Source	Cord Blood, Human	**Race**	Japanese
Passage No.	19	**Gender**	Male
Label Name	Fit__13SKC(YZWJs524)-250513	**Manufacture Dates**	03-Jun-2025
Culture medium	StemFit AK03N	**Substrate**	iMatrix-511MG
Culture Method	Feeder-free (*2)		
Genome-editing techniques	CRISPR-Cas9 (*3)		
Use and Provision of this cell stock	Please check our web site ; https://www.cira-foundation.or.jp/e/provision-of-ips-cells/manufacturing-flow/		

(*1) **Reference;** Okita, *et. al.*, Nat Methods. 2011 8(5): 409-412

(*2) **Reference;** Nakagawa, et. al., Sci. Rep. 2014 4: 3594

(*3) **Reference;** Huaigeng Xu, et al. Cell Stem Cell. 2019 Apr 4;24(4):566-578.

Test Result

Test	Method	Result
Sterility	Direct Inoculation Method	Negative
Mycoplasma	PCR	Negative
Endotoxin	LAL	＜ 0.01523 EU/mL
Virology (HBV, HCV, HIV, HTLV, ParvoB19)	PCR	Negative
Morphology	Microscope	Consistent with human ES cells
Thawed postnatal cells	Cell count(*4)	1.96 x 10^5 cells (Survival rate; 86.3%)
STR genotyping	PCR	Consistent with the donor cells
Undifferentiated markers	Flow cytometry	TRA-1-60(+) :96.23 % SSEA4(+); 99.97 % TRA-2-49(+); 99.68 % OCT3/4(+); 98.98 %
Gene editing confirmation	WGS	Detected of edits
	Flow cytometry(*5)	HLA-A(-) ; 99.92 % HLA-C(+) ; 85.55 %
Karyotype	G-banding	49,XY,+8,+9,+12[1](*6) 46,XY[19]
CNV(*5)(*7)	WGS, SNP	No de novo CNVs (>1kbp) were found in COSMIC Cancer Gene Census (ver.96) and Shibata list(*8) .
SNV/Indel(*5)(*7)	WGS	No de-novo non-synonymous SNVs/Indels were found in COSMIC Cancer Gene Census (ver.96) and Shibata list (*8).
Residual guide RNA(*5)	qPCR	Not detected
Residual Cas9(*5)	ELISA	1.711 ng/mL (*9)
Cardiac differentiation(*5)	Reference: “ Funakoshi et al., 2016, Sci Rep.”	TnT(+) ＝ 7.58 %
Number of proliferating cells after thawing	Counting the number of the cells after culturing for 6 days(*4).	6.99 ×10^5 cells（Number of seeded cells : 0.65 ×10^5 cells）
Corneal epithelial differentiation(*5)	Flow cytometry	SSEA4 (+) CD104 (+) = 25.9 % (*10) Measurements (%) equivalent to those of the parent strain YZWJs524 were obtained.

（*4）NucleoCounter® NC200

（*5）Reference test: these are not related to the product release.

（*6）Not qualify as a clone according to the ISCN definition

（*7）CNV; Copy Number Variation , SNV/Indel; Single nucleotide variants /Insertion Deletion

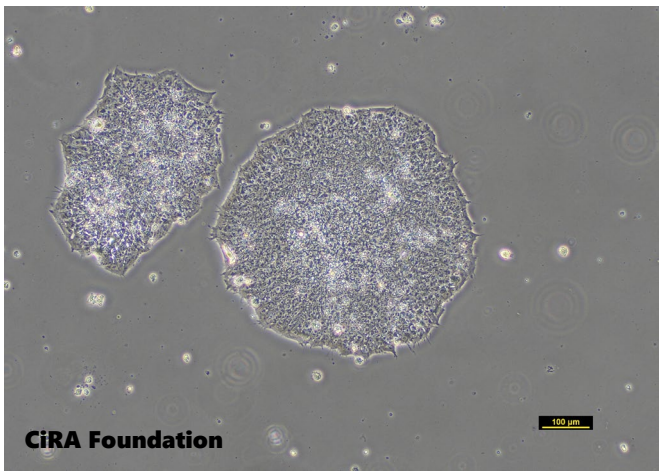
（*8）The PMDA Science Board “Current Perspective on Evaluation of Tumorigenicity of Cellular- and Tissue-based Products Derived from induced Pluripotent Stem Cells (iPSCs) and iPSCs as Their Starting Materials”（Cellular-

and Tissue-based Products Subcommittee, 20 August 2013）

（*9）As a reference, the residual value of Cas9 in the cells immediately after transfection: 6~34 ng/mL
In the negative control: 1 ng/mL.

（*10）Evaluation of PKC (Primary Knock-out Cell) as an intermediate material (test site: Department of Ophthalmology, Graduate School of Medicine, Osaka University)

■Image



Scale bar: 100 µm

Please contact us if you have any questions.
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