

Caki-2 | 300140

General information

Description	Caki-2 is a cell line derived from a human renal cell carcinoma (ccRCC) cell line, which is characterized by the presence of a von Hippel-Lindau (VHL) gene mutation. This cell line is used for research purposes and is available from Cytion.
Organism	Human
Tissue	Kidney
Disease	Renal cell carcinoma
Synonyms	CAKI-2, CaKi-2, caki-2, CAKI 2, Caki 2, Caki2, CAKI2

Cell line characteristics

Age	69 years
Gender	Male
Ethnicity	White
Morphology	Epithelial cells, forming clusters and sheets, with a high degree of cellular heterogeneity and a high degree of cellular proliferation.
Growth properties	Highly proliferative, with a high degree of cellular heterogeneity and a high degree of cellular proliferation.

Cell line identification

Citation	Caki-2 (Cytion 300140)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0235

Cell line authentication

Product sheet

HEK293T Caki-2 | 300140

Isoenzymes	Me-2, 1, PGM3, 1, PGM1, 1, ES-D, 1, AK-1, 1, GLO-1, 1-2, G6PD, B, LDH isoenzymes 0.0511
Tumorigenic	Yes, in soft agar in nude mice in immunocompetent mice
Karyotype	(P8) 46,XX,t(12;21)(p13;p11) (+A2, +A3, +B, +C, +D, +F, +G, -A) 46,XX,t(12;21)(p13;p11)
HEK293T	
Culture Medium	RPMI 1640, w: 2.0 mM glutamine , w: 2.0 g/L NaHCO3 (GlutaMAX GlutaMAX Cytion 820700a)
Supplements	GlutaMAX 10% FBS
Dissociation Reagent	Trypsin
Subculturing	Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks at a density of 1 x 10⁴ cells per flask.
Seeding density	1 x 10 ⁴ cells per flask cells per flask cells per flask cells per flask cells per flask
Fluid renewal	2 times 3 times times
Post-Thaw Recovery	Cells are seeded at a density of 1 x 10⁴ cells per flask and allowed to recover for 24 hours before use.
Freeze medium	Cells are resuspended in freezing medium (RPMI 1640 + 10% FBS + 10% DMSO) and frozen in 1 mL aliquots.

