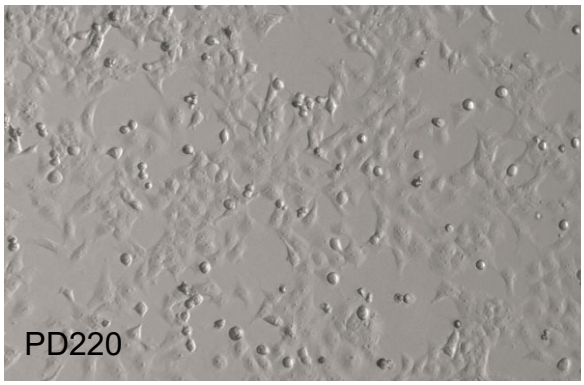
FANCA Immortalized primary FA human fibroblasts

PD220 (*FANCA*$^{-/-}$)

Description

Organism: *Homo sapiens*, human
Tissue: Skin sample donated by FA patient to Oregon Health and Science University.
Synonyms: FANCA, FA group A cell line PD220



References

Immortalization achieved using these procedures:

Immortalization of Four New Fanconi Anemia Fibroblast Cell Lines by an Improved Procedure. P.M. Jakobs, et al., Somatic Cell and Molecular Genetics. 1996

[Access free PDF version]

Growth media

Alpha MEM (HyClone, SH30265.01), 15% fetal bovine serum (FBS, Hyclone Laboratories, SH30071.03), and 1% penicillin-streptomycin (Gibco #15140122).

Antibiotic Resistance

The PD220 line carries a G418 (neo) resistance marker residual from complementation assays and not essential to the *FANCA*$^{-/-}$ phenotype.

If you would like to maintain the line in G418, the recommended dose is 500µg/mL.

Cell Line	Puromycin	G418 (neo)
PD220		+

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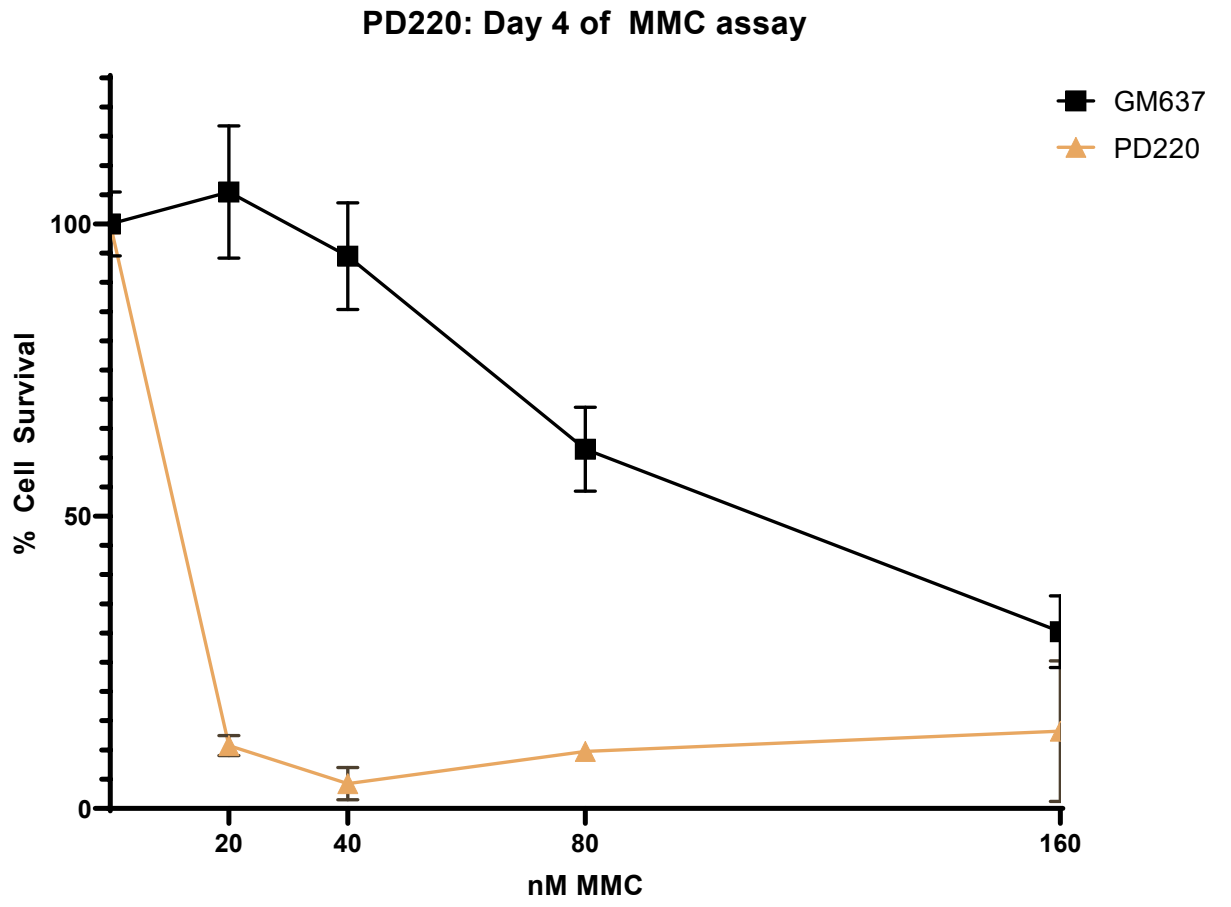
MMC Assay

Protocol: 2,500 cells/well were plated in 48 well plates in 250 ul of complete growth medium in quadruplicate per cell line. Growth medium was replaced by media containing 0-160 nM mitomycin-C (Research Products International CAS# 50-07-7) the next day. Cells were grown for 4d in the presence of drug without refeeding prior to quantifying cell survival using Cell Counting Kit-8 (Bimake CAT #B34304). Data were normalized versus control wells that had received no MMC.



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Quality Control Testing

- A terminal expansion sample was sent December 2021 to IDEXX BioAnalytics (Columbia, MO, USA) and authenticated using the Cell Check 16 Plus service as well as tested for *Mycoplasma* and interspecies contamination from mouse, rat, African green monkey and Chinese hamster.

Cell Line	Mycoplasma sp.	mouse	rat	Human	Chinese Hamster	African Green Monkey
PD220	-	-	-	+	-	-

- A Human 16 species-specific **STR marker profile** has been established for this cell line and used for comparative analysis with available published profiles to confirm its unique identity. The genetic profile can be used for future comparisons of this cell line.

	IDEXX Case #	**38010-21-01**
	Cell Line ID	**PD220 FANCA**
X, Y	AMEL	X, Y
Chr 5	CSF1PO	11, 12
Chr 13	D13S317	11, 13
Chr 16	D16S539	10, 13
Chr 18	D18S51	17
Chr 21	D21S11	29, 30
Chr 3	D3S1358	15, 16
Chr 5	D5S818	10, 12
Chr 7	D7S820	10, 11
Chr 8	D8S1179	14
Chr 4	FGA	25
Chr 21	Penta_D	5
Chr 15	Penta_E	7, 10
Chr 11	TH01	7, 8
Chr 2	TPOX	8
Chr 12	vWA	15, 16

To submit a sample for STR profiling go to https://www.idexxbioanalytics.com/authenticate to get a guide on Cell Line Authentication and https://www.idexxbioanalytics.com/cellcheck to order. Request your sample be compared to "PD220 FANCA (IBA# 38010-21-01)".

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