MACQUARIE UNIVERSITY CANCER BIOBANK

MQCB00033A REPORT

07 OCTOBER 2022

CLINICAL SUMMARY

Sex: Male
Age: 56
Pre-operative radiotherapy: Unknown

HISTOPATHOLOGY

Specimen type: Brain
Tumour site: Left Cerebral
Tumour type: Glioblastoma
Tumour stage: Grade IV (WHO 2016), IDH negative

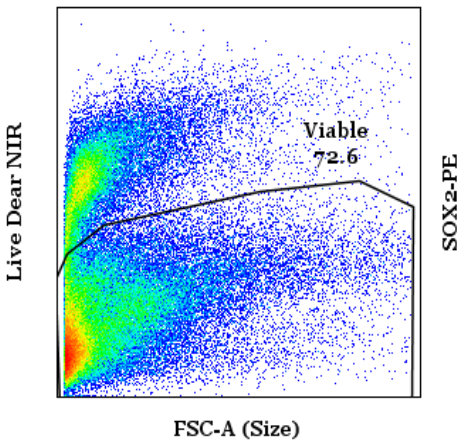
50 – 70% Tumour Content

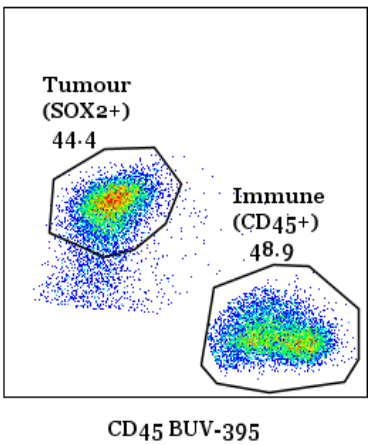
NEXT GENERATION GENOME/TRANSCRIPTOME DATA

Provider: Australian Genome Research Facility - 150bp paired end
Data yield: Germline DNA: 354,776,881 paired end, 107.14 Gbp
Tumour DNA: 805,225,676 paired end, 243.18 Gbp
Tumour RNA: 48,959,249 paired end, 14.79 Gbp

Top pathogenic somatic mutations			
Gene	**Alteration**	**Allele Frequency**	**Function**
PIK3CA	c.3129G>A, p.M1043I	45%	Gain
TERT	c.-124C>T, promoter alteration	38%	Gain

FLOW CYTOMETRY TUMOUR DISSOCIATE ANALYSIS





Cell Type	(%) of subset
Viable cells	72.6
Viable> CD45+	48.9
Viable>CD45+>CD3+	25.8
Viable>SOX2+	44.4
Viable>SOX2+>GFAP+	83.0
Viable>SOX2+>Nestin+	91.5
Viable>SOX2+>CD44+	87.1
Viable>SOX2+>CD133+	57.3