



MACQUARIE UNIVERSITY CANCER BIOBANK

MQCB00001A REPORT

07 OCTOBER 2022

CLINICAL SUMMARY

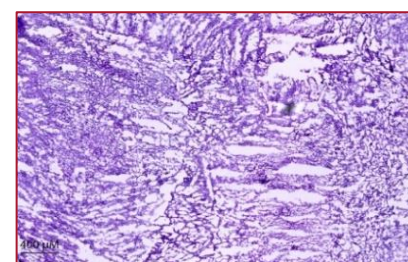
Sex: Female
Age: 31
Pre-operative radiotherapy: Unknown

HISTOPATHOLOGY

Specimen type: Brain
Tumour site: Left Temporal
Tumour type: Anaplastic Astrocytoma
Tumour stage: Grade III (WHO 2016), IDH mutant, Borderline MGMT Methylation status

NEXT GENERATION GENOME/TRANSCRIPTOME DATA

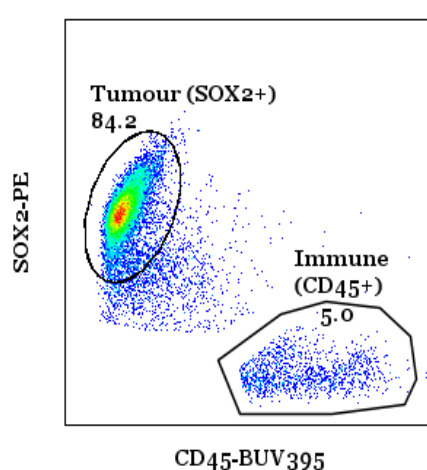
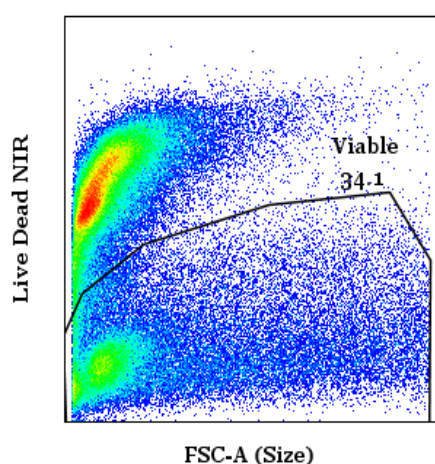
Provider: Australian Genome Research Facility - 150bp paired end
Data yield: Germline DNA: 403,402,517 paired end, 121.83 Gbp
 Tumour DNA: 875,973,079 paired end, 264.54 Gbp
 Tumour RNA: 59,515,717 paired end, 17.97 Gbp



75% Tumour Content

Top pathogenic somatic mutations			
Gene	Alteration	Allele Frequency	Function
IDH1	c.395G>A, p.R132H	48%	Gain
TP53	c.473G>A, p.R158H	49%	Loss
TP53	c.817C>T, p.R273C	49%	Gain
ATRX	c.6527dupT, p.L2176fs*4	65%	Loss

FLOW CYTOMETRY TUMOUR DISSOCIATE ANALYSIS



Cell Type	(%) of subset
Viable cells	34.1
Viable>CD45+	5.0
Viable>CD45+>CD3+	15.7
Viable>SOX2+	84.2
Viable>SOX2+>GFAP+	3.3
Viable>SOX2+>Nestin+	0.9
Viable>SOX2+>CD44+	0.9
Viable>SOX2+>CD133+	1.4