



MACQUARIE UNIVERSITY CANCER BIOBANK

MQCB00206A REPORT

9 July 2025

CLINICAL SUMMARY

Sex: Female
Age: 68
Pre-operative radiotherapy:

HISTOPATHOLOGY

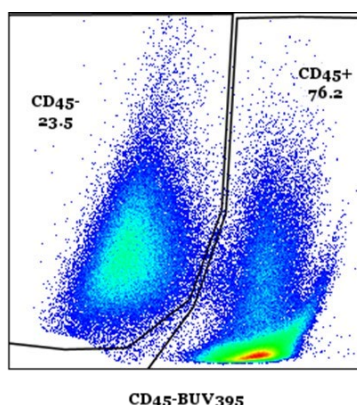
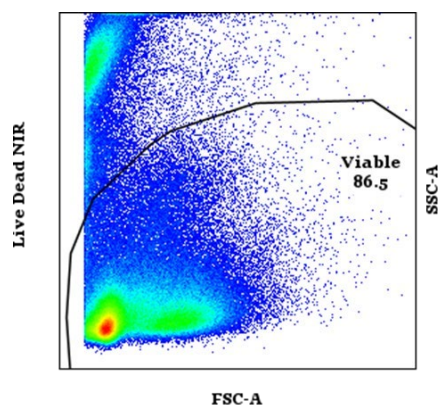
Specimen type: Spleen
Tumour site: Spleen
Tumour type: Melanoma
Tumour stage: Stage IV
Specimen tumour content: 95%

NEXT GENERATION GENOME/TRANSCRIPTOME DATA

Provider: Australian Genome Research Facility - 150bp paired end
Data yield: Germline DNA: 34,765,001 paired end, 10.50 Gbp
Tumour DNA: 60,639,485 paired end, 18.31 Gbp
Tumour RNA: 46,399,163 paired end, 14.01 Gbp

Top pathogenic somatic mutations			
Gene	Alteration	Allele Frequency	Function
KRAS	c.188_189insCCA p.E63delinsDQ	78%	Loss
TERT	c.-124 C>T	32%	Gain
KRAS	c.185_189insCCA, p.E63delinsDQ	78	Likely gain
ERBB4	c.2131C>T p.R711C	47%	Likely gain

FLOW CYTOMETRY TUMOUR DISSOCIATE ANALYSIS



Cell Type	(%) of subset
Viable Cells	86.5
Viable Cells>CD45-	23.5
Viable Cells>CD45+	76.2
Viable Cells>CD45+>B Cells	48
Viable Cells>CD45+>CD4+	17.9
Viable Cells>CD45+>CD8+	11.4