

# MACQUARIE UNIVERSITY CANCER BIOBANK

MQCB00011A REPORT

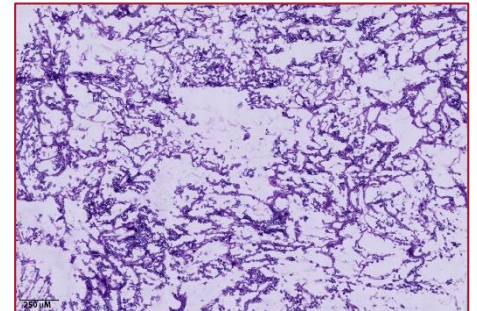
07 OCTOBER 2022

## CLINICAL SUMMARY

**Sex:** Male  
**Age:** 77  
**Pre-operative radiotherapy:** No

## HISTOPATHOLOGY

**Specimen type:** Brain  
**Tumour site:** Right Occipital  
**Tumour type:** Right Occipital Tumour - Consistent with Metastatic Clear Cell Renal Cell Carcinoma  
**Tumour stage:** Metastatic, Positive: PAX-8, Vimentin, CD10, CD117



75% Tumour Content

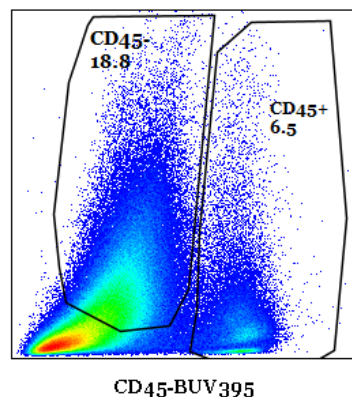
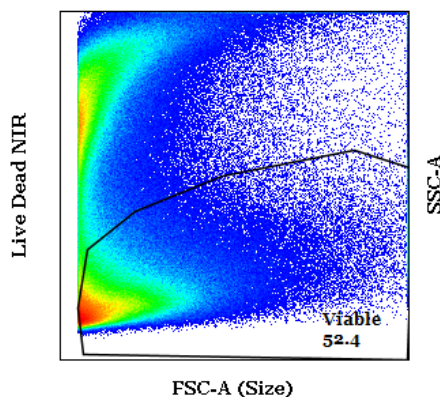
## NEXT GENERATION GENOME/TRANSCRIPTOME DATA

**Provider:** Australian Genome Research Facility - 150bp paired end  
**Data yield:** Germline DNA: 548,690,908 paired end, 165.70 Gbp  
 Tumour DNA: 806,937,986 paired end, 243.70 Gbp  
 Tumour RNA: 71,700,997 paired end, 21.65 Gbp

### Top pathogenic somatic mutations

Gene	Alteration	Allele Frequency	Function
VHL	c.234T>A p.N78K	30%	Loss
PTEN	c.959_975delTAACAAAAAATG... p.L320*	25%	Loss
PBRM1	C.3069C>G p.Y1023*	28%	Loss

## FLOW CYTOMETRY TUMOUR DISSOCIATE ANALYSIS



Cell Type	(%) of subset
Viable cells	52.4
Viable>CD45-	18.8
Viable>CD45+	6.5
Viable>CD45+>B cells	0.2
Viable>CD45+>CD4+/Foxp3-	4.7
Viable>CD45+>Tregs+	0.2
Viable>CD45+>CD8+	3.2
Viable>CD45+>Monocytes/Macrophages	54.9