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TISSUE PREPARATION FOR POLYMERASE CHAIN REACTION (PCR)/MOLECULAR

Synonym(s):

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<p>Lab Section Category</p>	<p>Histopathology Click here to find out more about the write-up (/clinical-departments-centers/pathology/pathology-handbook/lab-discipline-special-instructions/pages/histopathology.aspx).</p>
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<p>Description</p>	<p>Tests perform by Histomolecular and molecular lab:</p> <p>EGFR Sanger Sequencing, EGFR COBAS Real time PCR, KRAS/BRAF, NRAS, BRAF V600E, BRAF Sanger Sequencing, MSI PCR, C-KIT (Exon 9, 11), C-KIT (Exon 13, 17), PDGFRA, T & B Cell Clonality test, TB PCR, SSTP(Somatic Solid Tumour Panel)</p> <ol style="list-style-type: none"> 1. Refer to Immunohistochemistry for creating CPOE order. 2. Requirements for external materials for Molecular test: 3. For requests from external institutes, please raise a memo with the same information as above in point 1 and a copy of pathology report. Please indicate the billing location. 4. Upon receiving or retrieving of sample, Histopathology lab takes 4-5 working days to submit the sample to the respective laboratory for testing. Please check with the respective laboratory (Molecular lab, Translational Pathology Centre, Cytogenetic lab and Central TB lab) for turnaround time of individual test performed by them. 																	
	<p>Sample requirements:</p> <table border="1"> <thead> <tr> <th data-bbox="772 842 967 874">Test</th> <th data-bbox="974 842 1294 874">Testing Laboratory</th> <th data-bbox="1301 842 1839 874">Sample requirements</th> <th data-bbox="1845 842 2085 911">Tumour content</th> </tr> </thead> <tbody> <tr> <td data-bbox="772 943 967 1054">EGFR Sanger Sequencing</td> <td data-bbox="974 943 1294 975">SGH Molecular Lab</td> <td data-bbox="1301 943 1839 1114">1 HE, 8 unstains at 8µm for resections, non coated slides 1 HE, 12 unstains at 5µm for biopsies, non coated slides</td> <td data-bbox="1845 943 2085 1011">Minimum 30% tumour content</td> </tr> <tr> <td data-bbox="772 1145 967 1257">EGFR Real Time PCR (cobas)</td> <td data-bbox="974 1145 1294 1177">SGH Molecular Lab</td> <td data-bbox="1301 1145 1839 1316">1 HE, 8 unstains at 8µm for resections, non coated slides 1 HE, 12 unstains at 5µm for biopsies, non coated slides</td> <td data-bbox="1845 1145 2085 1214">Minimum 10% tumour content</td> </tr> <tr> <td data-bbox="772 1342 967 1374">KRAS/BRAF</td> <td data-bbox="974 1342 1294 1374">SGH Molecular Lab</td> <td data-bbox="1301 1342 1839 1374">Refer to requirement for EGFR</td> <td data-bbox="1845 1342 2085 1410">Minimum 30% tumour content</td> </tr> </tbody> </table>			Test	Testing Laboratory	Sample requirements	Tumour content	EGFR Sanger Sequencing	SGH Molecular Lab	1 HE, 8 unstains at 8µm for resections, non coated slides 1 HE, 12 unstains at 5µm for biopsies, non coated slides	Minimum 30% tumour content	EGFR Real Time PCR (cobas)	SGH Molecular Lab	1 HE, 8 unstains at 8µm for resections, non coated slides 1 HE, 12 unstains at 5µm for biopsies, non coated slides	Minimum 10% tumour content	KRAS/BRAF	SGH Molecular Lab	Refer to requirement for EGFR
Test	Testing Laboratory	Sample requirements	Tumour content															
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KRAS/BRAF	SGH Molecular Lab	Refer to requirement for EGFR	Minimum 30% tumour content															

NRAS	SGH Molecular Lab	Refer to requirement for EGFR	Minimum 30% tumour content
BRAF V600E	SGH Molecular Lab	Refer to requirement for EGFR	Minimum 30% tumour content
BRAF Sanger Sequencing	SGH Molecular Lab	Refer to requirement for EGFR	Minimum 30% tumour content
MSI PCR	SGH Molecular Lab	Please provide both tumour and normal tissue 1 HE, 8 unstains at 8µm for normal 1 HE, 8 unstains at 8µm for tumour	Minimum 30% tumour content
C-KIT (Exon 9,11)	SGH Molecular Lab	Refer to requirement for EGFR	Minimum 30% tumour content
C-KIT (Exon 13, 17)	SGH Molecular Lab	Refer to requirement for EGFR	Minimum 30% tumour content
PDGFRA	SGH Molecular Lab	Refer to requirement for EGFR	Minimum 30% tumour content
T or B Cell Clonality	SGH Molecular Lab	1 HE, 8 unstains at 8µm for resections 1 HE, 20 unstains at 5µm for biopsies/ bone marrows	Minimum 1% lymphocyte content
1p19q FISH	Cytogenetic Lab	1HE, 4 unstains on coated slides	Minimum 100 nuclei

Lung Cancer FISH Panel	Cytogenetic Lab	1HE, 8 unstains at 4µm on coated slides	Minimum 100 nuclei
Her-2 FISH	Cytogenetic Lab	1HE, 3 unstains on coated slides	Minimum 100 nuclei
TB-PCR	Central TB Lab	1 HE, 8 unstains at 8µm for resections, non coated slides 1 HE, 15 unstains at 5µm for biopsies, non coated slides	Not applicable
SSTP	Translational Pathology Centre	Refer to requirement for EGFR	Minimum 30% tumour content

Contact laboratory (Tel: 6321 4008) for further information.

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