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Molecular Testing in Lung Cancer for Determination of Patient Eligibility for Targeted Therapies



Testing at ARUP Laboratories



www.aruplab.com

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keywords: LUNG CANCER

*A nonprofit enterprise of the University of
Utah and its Department of Pathology*

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ARUP's lung cancer testing menu is ideally suited to address gene mutations and translocations identified as actionable therapy targets. Faster turnaround times enable clinicians to provide patients with **timely, individualized treatment plans.**



		Gene Mutations						Emerging Markers				Gene Fusions/Translocations			Protein Expression			
		KRAS	ALK	BRAF	EGFR	ERBB2	Add'l Genes	ERBB4	AKT1	NRAS	PIK3CA	ALK	RET	ROS1	ALK	PD-L1	ROS1	
Next-Generation Sequencing Panels																		
3004294	Solid Tumor Mutation Panel, Sequencing	●	●	●	●	●	35	●	●	●	●							Detects mutations in 44 genes, covering >2,400 variants Gene and variant list: ltd.aruplab.com/api/ltd/pdf/375
Point Mutation—Digital droplet PCR																		
2012868	EGFR T790M Mutation Detection in Circulating Cell-Free DNA				●													Plasma or CSF sample type Guides clinical treatment decisions about acquired resistance to early generation TKIs and decision to switch to EGFR T790M-specific TKIs
Single Gene Assays—Mutation detection by pyrosequencing																		
2002498	BRAF Codon 600 Mutation Detection			●														Covers codon 600 (exon 15)
2002440	EGFR Mutation Detection				●													Covers exons 18–21
0040248	KRAS Mutation Detection	●																Covers codons 12 and 13 (exon 2) and codon 61 (exon 3)
2003123	NRAS Mutation Detection									●								Covers codons 12 and 13 (exon 2) and codon 61 (exon 3)
Immunohistochemistry (IHC)																		
2007324	ALK (D5F3) with Interpretation														●			More cost effective than FISH testing
2011431	ALK (D5F3) with Relfex to FISH											●			●			If IHC is positive or equivocal, the sample is reflexed to FISH for confirmation.
2013284	PD-L1 22C3 IHC for NSCLC with Interpretation, pembrolizumab (KEYTRUDA)															●		
2013684	PD-L1 28-8 pharmDx by Immunohistochemistry with Interpretation, nivolumab (OPDIVO)															●		
2008414	ROS1 with Interpretation with Reflex to FISH													●			●	If IHC is equivocal or positive, the sample is reflexed to FISH.
Fluorescent In Situ Hybridization (FISH)																		
3001302	ALK Gene Rearrangements by FISH, Lung											●						
3001312	RET Gene Rearrangements by FISH												●					
3001308	ROS1 by FISH													●				