

Client: Example Client ABC123  
123 Test Drive  
Salt Lake City, UT 84108  
UNITED STATES

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 12/31/1959  
**Gender:** Male  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**ALK (D5F3) by Immunohistochemistry with Reflex to ALK Gene Rearrangements by FISH**  
ARUP test code 2011431

ALK(D5F3) by IHC Result

Negative

This result has been reviewed and approved by [REDACTED]  
[REDACTED] Controls stained appropriately.

H=High, L=Low, \*=Abnormal, C=Critical

**INTERPRETIVE INFORMATION: ALK(D5F3) by IHC Result**

A result of negative is defined by absence of cytoplasmic staining in tumor cells. A positive result is defined as the presence of strong and diffuse, cytoplasmic staining in tumor cells. An equivocal result is defined by weak and/or focal cytoplasmic staining. ALK Gene Rearrangements by FISH may be useful for resolving an equivocal IHC result. Positive IHC results may predict response to ALK inhibitors.

Controls were run and performed as expected.

This assay is performed on formalin fixed paraffin embedded tissue, using the ALK D5F3 clone and a proprietary multimer based detection system.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

**References**

1. Lindeman NI., Cagle PT., Aisner DL., et al. Updated Molecular Testing Guideline for the Selection of Lung Cancer Patients for Treatment With Targeted Tyrosine Kinase Inhibitors. Guideline From the College of American Pathologists, the International Association for the Study of Lung Cancer, and the Association for Molecular Pathology. *J Mol Diagn* 2018;20:129-59.
2. Rogers T-M., Russel PA., Wright G., et al. Comparison of Methods in the Detection of ALK and ROS1 Rearrangements in Lung Cancer. *J Thorac Oncol* 2015;10:611-8.
3. Wynes MW., Sholl LM., Dietel M., et al. An International Interpretation Study Using the ALK IHC Antibody D5F3 and a Sensitive Detection Kit Demonstrates High Concordance between ALK IHC and ALK FISH and between Evaluators. *J Thorac Oncol* 2014;9:631-8.
4. von Laffert M., Warth A., Penzel R., et al. Multicenter Immunohistochemical ALK-Testing of Non-Small-Cell Lung Cancer Shows High Concordance after Harmonization of Techniques and Interpretation Criteria. *J Thorac Oncol* 2014;9:1685-92.
5. Thorne-Nuzzo T., Williams C., Catallini A., et al. A Sensitive ALK Immunohistochemistry Companion Diagnostic Test Identifies Patients Eligible for Treatment with Crizotinib. *J Thorac Oncol* 2017;12:804-13.

ALK Tissue Source

Lung

ALK(D5F3) by IHC Reference Number

██████████

H=High, L=Low, \*=Abnormal, C=Critical

VERIFIED/REPORTED DATES				
Procedure	Accession	Collected	Received	Verified/Reported
ALK(D5F3) by IHC Result	21-049-144954	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
ALK Tissue Source	21-049-144954	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
ALK(D5F3) by IHC Reference Number	21-049-144954	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, \*=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com  
500 Chipeta Way, Salt Lake City, UT 84108-1221  
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 21-049-144954  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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