MAYO CLINIC
Mayo Medical Laboratories

Laboratory Service Report 1-800-533-1710

Patient Name	Patient ID	Age	Gender	Order #
VALIDATIONTESTING,FLRET	SA00057139	67	M	SA00057139
Ordering Phys CLIENT,CLIENT				**DOB** 06/15/1945
Client Order # SA00057139	**Account Information**			**Report Notes**
Collected 05/06/2013 08:00	C7028846-DLMP Rochester 3050 Superior Drive Rochester, MN 55901			
Printed 06/11/2013 14:36				

Test	Flag	Results	Unit	Reference Value	Perform Site*
Lung Cancer, RET (10q11), FISH, Ts					
RECEIVED: **REPORTED:** 05/09/2013 08:15					
Specimen		Tissue-Paraffin			MCR
Specimen ID		1061709			MCR
Order Date		06 May 2013 10:36			MCR
Reason For Referral r/o 10q11.2 RET rearrangement					MCR
Method FISH for rearrangement of the RET gene locus using probes for the 5' and 3' regions of the RET gene at 10q11 in 100 nuclei.					MCR
Results nuc ish(RETx2)(5'RET sep 3'RETx1)[100/100] 100% of 100 nuclei had separation of 5'RET and 3'RET signals. The normal cutoff is <7.0% for one 5'RET, one 3'RET and one 5'RET/3'RET signal.					MCR
Interpretation The result is abnormal and indicates 100% of nuclei had a rearrangement of the RET locus. Rearrangement of the RET gene at 10q11.2 has been observed in a subset of lung adenocarcinomas. Lung adenocarcinomas with RET rearrangements may be sensitive to directed RET kinase inhibitors. Clinical and pathologic correlation is recommended. Matsubara et al., J of Thoracic Oncol 7:1872-1876, 2012. DISCLAIMER: Applicable to Analyte Specific Reagent (ASR) and Laboratory Developed Tests (LDT). This test was developed and its performance characteristics determined by Mayo Clinic. It has not been cleared or approved by the U.S. Food and Drug Administration. This FISH test does not rule out other chromosome abnormalities.					MCR
Reviewed by		Christina M Radtke			MCR
Released Date		09 May 2013 08:12			MCR

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director: Franklin R. Cockerill, III, M.D.

Patient Name	Collection Date and Time	Report Status
VALIDATIONTESTING,FLRET	05/06/2013 08:00	Final
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* Report times for Mayo performed tests are CST/CDT