MAYO CLINIC
Mayo Medical Laboratories

Laboratory Service Report 1-800-533-1710

Patient Name	Patient ID	Age	Gender	Order #
SAMPLEREPORT,HER2	SA00067717	64	F	SA00067717
Ordering Phys SMITH,JOHN				**DOB** 05/24/1950
Client Order # SA00067717	**Account Information**			**Report Notes**
Collected 06/01/2014 00:00	C7028846-DLMP Rochester SDSC 2 - Client Support Rochester, MN 55901			
Printed 06/18/2014 11:52				

Test	Flag	Results	Unit	Reference Value	Perform Site*
HER2 Amp, Breast Cancer, FISH					
Specimen		Tissue-Paraffin			MCR
Specimen ID		1065215			MCR
Source					MCR
Left breast 14 12345A					
Order Date		02 Jun 2014 13:27			MCR
Reason For Referral					MCR
r/o HER2 gene amplification					
Fixative		Formalin			MCR
Method					MCR
FISH using probes for HER2 (17q12) and a chromosome 17 centromere (D17Z1) control probe (PathVysion, Abbott Molecular, Inc). Two technologists score signals in 60 total nuclei from invasive or metastatic tumor and concurrent controls.					
Results					MCR
nuc ish(D17Z1,HER2)x2					
The HER2:D17Z1 ratio is 1.17.					
Average HER2 signals per cell is 2.1.					
Average D17Z1 signals per cell is 1.8.					
Interpretation					MCR
HER2 FISH RESULTS NEGATIVE.					
The invasive tumor cells have no evidence of HER2 gene amplification (per ASCO/CAP guidelines) in this breast excision specimen.					
2013 ASCO/CAP dual probe FISH reporting guidelines (Wolff et al., J Clin Oncol 31(31):3997-4013, 2013):					
FISH POSITIVE = HER2:D17Z1 ratio > or = 2.0 or average HER2 copy number > or = 6.0 signals per cell.					
FISH EQUIVOCAL = HER2:D17Z1 ratio <2.0 and average HER2 copy number > or = 4.0 and <6.0 signals per cell.					
FISH NEGATIVE = HER2:D17Z1 ratio <2.0 and average HER2 copy number <4.0 signals per cell.					
DISCLAIMER: This test was developed and its performance characteristics determined by Laboratory Medicine and Pathology, Mayo Clinic, Rochester MN. It is intended as an adjunct to existing prognostic clinical and pathologic information for breast cancer patients. This test is not					

Performing Site Legend on Last Page of Report

* Report times for Mayo performed tests are CST/CDT

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intended to diagnose or screen for breast cancer. Since only a portion of the tumor was tested, it is possible that this result may not represent the entire tumor population. Per ASCO/CAP guidelines, HER2 FISH test results are valid for non-decalcified paraffin embedded specimens fixed in 10% neutral buffered formalin between 6 and 72 hours. Results from specimens fixed outside these parameters should be interpreted accordingly.					
Consultant Rhett Patrick Ketterling MD					MCR
Report Date		03 Jun 2014 09:38			MCR

RECEIVED: 06/02/2014 13:20 **REPORTED:** 06/03/2014 09:40

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director: