MICHIGAN MEDICINE
UNIVERSITY OF MICHIGAN
LABORATORIES

Test Update 861

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Update Type New Tests
CPT Code 88377-TC, 88377-26

NEW TEST

IGH::MYC t(8;14)(q24;q32) Translocation by FISH

Order Code: MIHMY

Fee Code: NA123 (CPT 88377-TC, 88377-26)

Effective November 8, 2023, the MLabs Molecular Diagnostics Laboratory offers *IGH*::*MYC* t(8;14)(q24;q32) Translocation by FISH as a new available test. This dual-fusion FISH test may identify *MYC* rearrangements not detected by *MYC* break-apart FISH and may, therefore, be used in conjunction with the *MYC* (8q24) Rearrangement by FISH test. The *IGH*::*MYC* t(8;14)(q24;q32) rearrangement occurs in most Burkitt lymphomas and a subset of large B-cell lymphomas including high-grade B-cell lymphoma with *MYC* and *BCL2* rearrangements.

Test Usage: This test detects the *IGH*::*MYC* t(8;14)(q24;q32) rearrangement using fluorescence in situ hybridization (FISH). FISH is performed with fluorescent probes directed at *IGH* (14q32), *MYC* (8q24) and the centromere of chromosome 8. The *IGH*::*MYC* t(8;14)(q24;q32) rearrangement occurs in most Burkitt lymphomas and a subset of large B-cell lymphomas including high-grade B-cell lymphoma with *MYC* and *BCL2* rearrangements. Importantly, this test may identify *MYC* rearrangements not detected by *MYC* break-apart FISH and may, therefore, be used in conjunction with the *MYC* (8q24) Rearrangement by FISH test.

Test Limitations: A negative result does not exclude a *MYC* rearrangement involving translocation partners other than *IGH*. This test may fail to detect a translocation in a sample with a low neoplastic burden.

Collection Instructions: A formalin-fixed, paraffin-embedded tissue block (containing sufficient neoplastic cells) is preferred. Unstained slides (3 slides cut at 4-microns) with associated H&E-stained slide are also acceptable. Decalcified tissue or tissues with other fixatives will be accepted and the assay attempted; however, these specimens may result in failed testing due to degraded nucleic acid. Both blocks and slides should be stored at room temperature.

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