



## **Test Update 745**

**Posted Date** 01/13/2021  
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**Update Type** [New Tests](#)  
**CPT Code** 883377-TC, 88377-26

### **NEW TEST**

#### **MMDIT (DDIT3 (12q13) Rearrangement by FISH)**

**Order Code:** MDDIT  
**CPT Code:** 88377-TC, 88377-26

Effective January 20, 2021, MLabs will now offer MMDIT (DDIT3 (12q13) Rearrangement by FISH) [MDDIT]. See below for details.

**Test Usage/Test Limitations:** DDIT3 (formerly CHOP) encodes a transcription factor involved in adipogenesis and erythropoiesis. Rearrangements involving this gene are characteristic of myxoid liposarcoma. Morphologically, myxoid liposarcomas demonstrate uniform, small spindled cells within a myxoid stroma with distinctive arborizing capillaries. A subset of myxoid liposarcomas show progression to round cell morphology, associated with a poorer prognosis. Approximately 95% of myxoid liposarcomas bear a t(12;16)(q13;p11) rearrangement that results in the fusion of the N-terminal transactivation domain of FUS and the full length of DDIT3. In the remaining cases, there is a similar rearrangement involving DDIT3 and EWSR1. The detection of DDIT3 rearrangements can be useful in diagnosing myxoid liposarcoma – including uncommon histologic variants – and in distinguishing this sarcoma from other mesenchymal tumors that may be considered in the differential diagnosis.

**Specimen Requirements:** 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.

**Test Methodology:** Fluorescence In Situ Hybridization (FISH)

**Analytic Time:** 3 – 10 days

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