



<u>Procedure</u>	<u>Result</u>	<u>Units</u>	<u>Ref Interval</u>	<u>Accession</u>	<u>Collected</u>	<u>Received</u>	<u>Reported/</u> <u>Verified</u>
MDM2 FISH Result	Amplified	f		18-347-900112	13-Dec-18 11:24:00	13-Dec-18 11:24:00	14-Dec-18 09:21:55
MDM2/CEP12 FISH Ratio	1.00			18-347-900112	13-Dec-18 11:24:00	13-Dec-18 11:24:00	14-Dec-18 09:21:55
Average MDM2 Signal Number per Cell	2.0			18-347-900112	13-Dec-18 11:24:00	13-Dec-18 11:24:00	14-Dec-18 09:21:55
Average CEP12 Signal Number per Cell	2.0			18-347-900112	13-Dec-18 11:24:00	13-Dec-18 11:24:00	14-Dec-18 09:21:55
MDM2 FISH Reference Number	S18-123			18-347-900112	13-Dec-18 11:24:00	13-Dec-18 11:24:00	14-Dec-18 09:21:55
MDM2 FISH Source	Tissue			18-347-900112	13-Dec-18 11:24:00	13-Dec-18 11:24:00	14-Dec-18 09:21:55
Total Cell Count	20			18-347-900112	13-Dec-18 11:24:00	13-Dec-18 11:24:00	14-Dec-18 09:21:55
Scoring Method	Manual			18-347-900112	13-Dec-18 11:24:00	13-Dec-18 11:24:00	14-Dec-18 09:21:55

13-Dec-18 11:24:00 MDM2 FISH Result:

Controls were run and performed as expected.
 This result has been reviewed and approved by Benjamin L. Witt, M.D.

13-Dec-18 11:24:00 MDM2 FISH Result:
 METHODOLOGY AND TEST INFORMATION:

Fluorescence in situ hybridization (FISH) analysis for MDM2 gene amplification status was performed on a section from a paraffin embedded tissue block using differentially labeled fluorescent probes targeting the MDM2 gene and the chromosome 12 centromere (CEP12) (Abbott Molecular). Cells were evaluated from regions of tumor identified on histopathologic review of a matching hematoxylin and eosin stained section. Controls performed appropriately.

MDM2 amplification (MDM2/CEP12 ratio of 2.0 or greater) is most useful for distinguishing well differentiated liposarcoma/atypical lipomatous tumor and dedifferentiated liposarcoma from benign lipoma. However, increased MDM2 gene copy number and, occasionally, amplification may be observed in other tumors with lipomatous differentiation (see Weaver, et al. 2008).

Reference:

* Abnormal, # = Corrected, C = Critical, f = Footnote, H = High, L = Low, t = Interpretive Text, @ = Reference Lab

Fletcher DM, Bridge JA, Hogendoorn P, Mertens F, Eds. WHO Classification of Tumours of Soft Tissue and Bone, 4th Ed. Lyon: IARC, 2013.

Weaver J, et al. Fluorescence in situ hybridization for MDM2 gene amplification as a diagnostic tool in lipomatous neoplasms. Mod Pathol. 2008;21(8):943-9

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement A: aruplab.com/CS.