



<u>Procedure</u>	<u>Result</u>	<u>Units</u>	<u>Ref Interval</u>	<u>Accession</u>	<u>Collected</u>	<u>Received</u>	<u>Reported/Verified</u>
FOXO1 FISH Result	Positive f			18-360-900042	26-Dec-18 13:36:00	26-Dec-18 13:37:00	26-Dec-18 13:44:59
FOXO1 FISH Reference Number	S18-234			18-360-900042	26-Dec-18 13:36:00	26-Dec-18 13:37:00	26-Dec-18 13:44:59
FOXO1 FISH Source	Tissue			18-360-900042	26-Dec-18 13:36:00	26-Dec-18 13:37:00	26-Dec-18 13:44:59
Total Cell Count	100			18-360-900042	26-Dec-18 13:36:00	26-Dec-18 13:37:00	26-Dec-18 13:44:59
Scoring Method	Manual			18-360-900042	26-Dec-18 13:36:00	26-Dec-18 13:37:00	26-Dec-18 13:44:59

26-Dec-18 13:36:00 FOXO1 FISH Result:  
 Controls were run and performed as expected. This result has been reviewed and approved by Dan Albertson, M.D.

26-Dec-18 13:36:00 FOXO1 FISH Result:  
 METHODOLOGY AND TEST INFORMATION:

Fluorescence in situ hybridization (FISH) analysis was performed on a section from a paraffin embedded tissue block using differentially labeled fluorescent probes targeting the upstream (5') and downstream (3') flanking regions of the FOXO1 (FKHR) gene (Abbott Molecular). Cells were evaluated from regions of tumor identified on histopathologic review of a matching hematoxylin and eosin stained section. Controls performed appropriately.

This test is designed to detect rearrangements involving the FOXO1 gene, but it does not identify a specific partner gene. An abnormal signal pattern seen in 25 percent or more of the evaluated tumor cells is considered a positive result.

Identification of a rearrangement of the FOXO1 gene is useful in the diagnosis of alveolar rhabdomyosarcoma.

Reference:

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

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

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