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INTERPHASE FLUORESCENCE IN SITU HYBRIDIZATION PANEL TEST FOR CHOLANGIOCARCINOMA

Synonym(s): CHOLANGIOCARCINOMA FISH PANEL

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Lab Section Category	**Cytogenetics - Cancer/Cancer FISH** Click here to find out more about the **write-up (/clinical-departments-centers/pathology/pathology-handbook/lab-discipline-special-instructions/pages/cytogenetics.aspx)**.
Indications	The p16 gene at chromosome 9p21 is a tumor suppressor gene that is commonly inactivated in a wide range of malignant tumors. Homozygous deletion of the p16 gene is a commonly reported abnormality in cholangiocarcinoma. In addition, gain of chromosomes 3, 7 and 17 are also present in malignant bile duct strictures. Fluorescence in situ hybridization assays using a multiprobe set consisting of centromeric probes for chromosomes 3, 7 and 17 and p16 gene can be used as a diagnostic tool in detecting the genetic alterations in cholangiocarcinoma.
Specimen Required	Freshly-cut tissue sections or biliary duct brushings.
Storage and Transport	The FISH test is optimal with freshly-cut tissue samples. Tissue sections should preferably be prepared between 4-6 microns in thickness on coated/positively-charged slides. The optimal fixation time in formalin should be between 6 - 72 hours. An accompanying Hematoxylin and Eosin (H&E) stained slide with the tumour region marked out by a pathologist should be submitted together with at least 3 unstained sections.
Method	Fluorescence In Situ Hybridization using direct-labelled FISH DNA probes are hybridized to target loci and analyzed under fluorescence microscopy.
Test Result	Gain of chromosomes 3, 7 and 17 or homozygous deletion of p16. FISH findings are reported in accordance to the International System for Human Cytogenomic Nomenclature (ISCN, 2016).

Reference Interval/Value	
Turnaround Time	3 ~ 10 days
Day(s) Test Set up	Monday - Saturday (office hours)

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Change History Notes

- **07 Nov 2012 02:45 PM**
  New test available w.e.f. 8 Oct 2012.

- **07 Dec 2015 03:56 PM**
  - Updated Turnaround Time: 3 ~ 10 days

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