

Human Papillomavirus (HPV) High/Low Risk, In Situ Hybridization

Overview

Useful For

Detecting human papillomavirus for both low-risk (6, 11) and high-risk (16, 18, 26, 31, 33, 35, 39, 45, 51, 52, 53, 56, 58, 59, 66, 68, 73, and 82.) genotypes

Method Name

In Situ Hybridization (ISH)

NY State Available

Yes

Specimen

Specimen Type

Special

Additional Testing Requirements

If additional interpretation or analysis is needed, request PATHC / Pathology Consultation along with this test.

Shipping Instructions

Attach the green pathology address label included in the kit to the outside of the transport container.

Necessary Information

A pathology/diagnostic report and a brief history are required.

Specimen Required

Supplies: Pathology Packaging Kit (T554) Specimen Type: Formalin-fixed, paraffin-embedded tissue block Specimen Volume: Entire block

Specimen Type: Slides **Slides:** 6 Unstained glass, positively charged slides with 5 (+ or - 1)-microns formalin-fixed, paraffin-embedded tissue

Forms

If not ordering electronically, complete, print, and send 1 of the following forms with the specimen: -<u>Oncology Test Request</u> (T729) -<u>Immunohistochemical (IHC)/In Situ Hybridization (ISH) Stains Request</u> (T763)

Reject Due To



Human Papillomavirus (HPV) High/Low Risk, In Situ Hybridization

Wet/frozen	Reject
tissue	
Cytology	
smears	
Nonformalin	
fixed tissue	
Nonparaffin	
embedded	
tissue	
Noncharged	
slides	
ProbeOn slides	

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Special	Ambient (preferred)		
	Refrigerated		

Clinical & Interpretive

Clinical Information

Human papillomavirus (HPV) infections with low-risk genotypes (6, 11) can cause benign hyperplasia such as condylomas and papillomas. Persistent infections with high-risk genotypes (16, 18, 26, 31, 33, 35, 39, 45, 51, 52, 53, 56, 58, 59, 66, 68, 73, and 82) are associated with cervical, vaginal, vulvar, and head and neck malignancies. Patients with HPV-related oropharyngeal squamous cell carcinoma (OPSCC) have shown better disease-specific survival and overall survival when compared to HPV-negative cases of OPSCC.

Reference Values

Results are reported as positive or negative for types 6 and 11 (low risk), and 16, 18, 26, 31, 33, 35, 39, 45, 51, 52, 53, 56, 58, 59, 66, 68, 73, and 82(high risk).

Interpretation

This test, when not accompanied by a pathology consultation request, will be answered as either positive or negative. If additional interpretation or analysis is needed, request PATHC / Pathology Consultation along with this test.

Cautions

Age of a cut paraffin section can affect staining quality. Stability thresholds vary widely among published literature. Best practice is for paraffin sections to be cut within 6 weeks.

Clinical Reference

1. Lindemann ML, Dominguez MJ, de Antonio JC, et al: Analytical comparison of the cobas HPV test with hybrid capture 2 for the detection of high-risk HPV genotypes. J Mol Diagn. 2012 Jan;14(1):65-70



Human Papillomavirus (HPV) High/Low Risk, In Situ Hybridization

2. Bishop JA, Ma XJ, Wang H, et al: Detection of transcriptionally active high-risk HPV in patients with head and neck squamous cell carcinoma as visualized by a novel E6/E7 mRNA in situ hybridization method. Am J Surg Pathol. 2012 Dec;36(12):1874-1882

3. Mirghani H, Casiraghi O, Guerlain J, et al: Diagnosis of HPV driven oropharyngeal cancers: Comparing p16 based algorithms with the RNAscope HPV-test. Oral oncology. 2016;62:101-108

Performance

Method Description In situ hybridization on sections of paraffin-embedded tissue.(Unpublished Mayo method)

PDF Report No

Day(s) Performed Monday through Friday

Report Available 5 to 7 days

Specimen Retention Time

Until staining is complete.

Performing Laboratory Location

Rochester

Fees & Codes

Fees

- Authorized users can sign in to <u>Test Prices</u> for detailed fee information.
- Clients without access to Test Prices can contact <u>Customer Service</u> 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact Customer Service.

Test Classification

This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. It has not been cleared or approved by the US Food and Drug Administration.

CPT Code Information

88365-Primary 88364-If additional ISH



Human Papillomavirus (HPV) High/Low Risk, In Situ Hybridization

LOINC[®] Information

Test ID	Test Order Name	Order LOINC [®] Value
HPVHL	HPV High/Low Risk ISH	In Process

Result ID	Test Result Name	Result LOINC [®] Value
71199	Interpretation	50595-8
71200	Participated in the Interpretation	No LOINC Needed
71203	Material Received	81178-6
71594	Disclaimer	62364-5
72112	Case Number	80398-1
71201	Report electronically signed by	19139-5