

Overview

Useful For

Aids in the identification of respiratory syncytial viral infection

Testing Algorithm

For the initial technical component only in situ hybridization (ISH) stain performed, the appropriate bill only test ID will be reflexed and charged (ISTOI). For each additional technical component only ISH stain performed, an additional bill only test ID will be reflexed and charged (ISTOA).

Reflex Tests

Test Id	Reporting Name	Available Separately	Always Performed
ISTOI	ISH Initial, Tech Only	No	No
ISTOA	ISH Additional, Tech Only	No	No

Method Name

In Situ Hybridization

NY State Available

Yes

Specimen

Specimen Type

TECHONLY

Ordering Guidance

This test includes only technical performance of the stain (no pathologist interpretation is performed). If diagnostic consultation by a pathologist is required order PATHC / Pathology Consultation.

Shipping Instructions

Attach the green pathology address label and the pink Immunostain Technical Only label included in the kit to the outside of the transport container.

Specimen Required

Supplies: Immunostain Technical Only Envelope (T693)

Specimen Type: Tissue

Container/Tube: Immunostain Technical Only Envelope

Preferred: 4 unstained positively charged glass slide (25- x 75- x 1-mm) per test ordered; sections 4-microns thick.

Acceptable: Formalin-fixed, paraffin-embedded (FFPE) tissue block

Digital Image Access

1. Information on accessing digital images of IHC stains and the manual requisition form can be accessed through this website: <https://news.mayocliniclabs.com/ihc-stains/>
2. Clients ordering stains using a manual requisition form will not have access to digital images.
3. Clients wishing to access digital images must place the order for IHC stains electronically. Information regarding digital imaging can be accessed through this website: <https://news.mayocliniclabs.com/ihc-stains/#FAQ>

Forms

If not ordering electronically, complete, print, and send an [Immunohistochemical \(IHC\)/In Situ Hybridization \(ISH\) Stains Request](#) (T763) with the specimen.

Reject Due To

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

Specimen Stability Information

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

Clinical & Interpretive

Clinical Information

Respiratory syncytial virus (RSV) causes a wheezing illness that especially affects young children. The virus infects alveolar pneumocytes and induces fusion of multiple cells, creating a "syncytial" multinucleated cell. This RSV probe sequence was designed to identify subgroups RSV-A and RSV-B. It has been verified to not cross react with the following viruses in formalin-fixed, paraffin-embedded (FFPE) tissue: adenovirus (ADV), BK virus (BKV), cytomegalovirus (CMV), Epstein-Barr virus (EBV), hepatitis C virus (HCV), human herpes virus, type 8 (HHV-8), human papillomavirus (HPV) types 6, 11, 16, E6/E7, *Helicobacter pylori* (H pylori), herpes simplex virus (HSV) types 1 and 2, JC virus (JCV), parvovirus,

toxoplasma, and varicella-zoster viruses (VZV).

Interpretation

This test includes only technical performance of the stain (no pathologist interpretation is performed). Mayo Clinic cannot provide an interpretation of tech only stains outside the context of a pathology consultation. If an interpretation is needed, refer to PATHC / Pathology Consultation for a full diagnostic evaluation or second opinion of the case. All material associated with the case is required. Additional specific stains may be requested as part of the pathology consultation, and will be performed as necessary at the discretion of the Mayo pathologist.

The positive and negative controls are verified as showing appropriate immunoreactivity and documentation is retained at Mayo Clinic Rochester. If a control tissue is not included on the slide, a scanned image of the relevant quality control tissue is available upon request. Contact 855-516-8404.

Interpretation of this test should be performed in the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

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. Hall CB: Respiratory syncytial virus and parainfluenza virus. N Engl J Med. 2001 Jun 21;344(25):1917-1928
2. Essaidi-Laziosi M, Lyon M, Mamin A, et al: Journal of Virological Methods. 2016;235:9-14
3. User manual: RNAscope 2.5 VS Assay for Ventana DISCOVER ULTRA System BROWN, Document Number 322200-USM_ULT

Performance**Method Description**

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

PDF Report

No

Performing Laboratory Location

Rochester

Fees & Codes**Test Classification**

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

CPT Code Information

88365-TC, Primary

88364-TC, if additional ISH

LOINC® Information

Test ID	Test Order Name	Order LOINC Value
RSVAB	Resp Syncytial Virus(RSV)ISH,T Only	Order only;no result

Result ID	Reporting Name	LOINC®
601949	Resp Syncytial Virus(RSV)ISH,T Only	Bill only; no result