

Pathology & Lab Medicine Service

Immunohistochemistry (IHC), in-situ hybridization (ISH), and Special Staining Cost Per Test (CPT) / Cost Per Reportable Result (CPRR) Reagent /Instrument Rental Requirement

1. Description of Requirement:

Immunohistochemistry (IHC) is a technique for identifying cellular or tissue constituents (antigens) relating to cancer and diseases by means of antigen-antibody interactions, with the antibody label coming from the reagent.

In Situ Hybridization (ISH) techniques allow the demonstration of specific nucleic acid sequences (genes) in their cellular environment.

Special staining techniques demonstrate the presence (or absence) of a cellular component that helps a pathologist diagnose cancer or a disease.

IHC and ISH and Special Stain reagent kits on a CPT or CPRR instrument rental basis including the analyzers, training of key operator at main training site (and on-site training of other staff), 24 hour customer service by phone, emergency and preventative service/repair Monday – Friday regular work hours.

2. Location of the Work:

VA Palo Alto Healthcare System
Pathology & Lab Med Svc Bldg. 100 E4-319
3801 Miranda Ave, Palo Alto, CA 94304

3. Instrument/Analyzer Requirements:

a. Analyzer for IHC-ISH must be able to

1. Perform immunohistochemistry(IHC) and in situ hybridization (ISH) stains with the full range of techniques (immunohistochemical, immune special ISH, SISH, immunofluorescence, counterstain, titration) simultaneously on one instrument
2. Perform pre-processing (deparfination, bake) on the analyzers
3. Fully automated (robotic) after adding samples to unit
4. STAT capability while other testing is in progress
5. Ability to add slides while instrument is running other tests
6. Ability to add or change reagents while instrument is running other tests
7. Have bar code tracking of samples and reagents
8. IHC turnaround time of 2.5 hours
9. Free standing floor model, approximate dimensions 45"W,32"D,62"H, ~ 110-230V

b. Analyzer for Special Stains must be able to

1. Perform special histology stains: AFB, alcian yellow, congo red, diastase, steiner, GMS, iron, PAS, reticulum, Stiner II, trichrome

2. Special stains turnaround time of 20 slides in 20 minutes; maximum at 90 mins.
3. High degree of automated features for tracking patient slides, reagents, waste, maintenance
4. Single slide heating (independent control) and liquid cover slip technology
5. Have bar code tracking of slides
6. Free standing floor model

c. Reagent/Tests with

1. Large, current FDA approved menu of IVD antibodies for IHC-ISH tests that will detect breast, prostate, lung and hemopathology cancers
2. Ability to provide IHC-ISH reagent markers from specialized companies that sometimes have proprietary reagents
3. Large variety of special stains typically used in a histology laboratory (refer to b.1.)
4. Fully automated assays without manual pre-treatment
5. Small kit sizes available whenever possible (less than 50 tests) to eliminate wastage/expired reagents

d. Data & System Management/Interface must be able to

1. Allow user to view status of patient tests during instrument operation
2. Lab instrument and vendor remote link support for troubleshooting and software upgrades
3. Connectivity of IHC-ISH and Special Stain analyzers to data management system

e. Instrument Service and Support must be able to

1. Provide 24-hour, 7 days per week customer service
2. Provide onsite service and arrive within 4 hours of emergency call Mon-Fri between 7 am – 3 pm.
3. Provide off site training for 1 key operator and onsite training as needed

4. Performance Standards:

Contract will be monitored relative to the quality of stains, timeliness of supply delivery, timeliness of service when required and submission of invoices.