# Immunohistochemistry

## INTRODUCTION

Immunohistochemistry utilizes a battery of antibodies to identify antigens on tissue associated with various disease states or infectious processes. State-of-the art automated immunohistochemistry instrumentation is used to insure uniform, high quality results. Individual antibodies can be selected based on the original histologic evaluation of the tissue, or the clinical status of the patient. Pathology consultation is available to aid in the selection of antibodies and interpretation of the stain results. In addition, tissues can be stained at CompuNet and returned to the requesting laboratory for interpretation in-house.

A listing of available antibodies can be found on the next page. Additional antiodies may be available upon request. The Immunohistochemistry laboratory (937-208-4314) or Pathology Department (937208-3588) should be contacted to discuss special needs.

## PROCEDURE

The following process should be followed when requesting immunohistochemistry testing:

Antibody Staining without Pathology Interpretation

1. Submit tissue block with the following information:

    - desired antibodies patient identification information
    - (name, date of birth)

2. Include the following client information (note: a custom requisition listing the most common antibodies desired can be provided, or the form on the next page can be submitted)

    - client name, address, phone number (to whom should the slides be returned)
    - billing information (who should be billed for the testing)

3. Slides will be returned as soon as staining is completed.

**Antibody Staining with Pathologist Interpretation**

1. Contact the Pathology Department at 937-208-3588 to discuss the optimal antibodies based on individual case information

2. Submit tissue block with the following information:

    - Patient identification (name, date of birth)
    - Name and telephone number of requesting physician
    - Billing information

3. An individual pathology report will be provided as soon as staining and interpretation is completed.

# *Immunohistochemistry Request Form/Worksheet—CompuNet Clinical Labs*

***Date:*_____ *Pathologist/Phys.:*_____** *Act#*_____

***Name:*_____ *Location:*_____** *Req#*_____

***MVH/client Surg#*_____ *Technical #*_____** *Acc#*_____

*CoPath# her2*_____

_____AAT
_____ACTH
_____adenovirus
_____AE1,3
**( ) Cut Clean**
_____AFP
_____ALK protein
_____*Aspergillus*
_____B72.3(CD175)
_____bcl-2
_____bcl-6
_____Ber-EP4
_____BRST-2 (GCDFP15)
_____c-kit (CD117)
_____calcitonin
_____calretinin
_____CAM 5.2
_____CEA-mono
_____CEA-poly
_____chromogranin
_____CMV
_____Cyclin D1
_____cytokeratin 5/6
_____cytokeratin 7
_____cytokeratin 19
_____cytokeratin 20
_____DBA.44
_____desmin
_____EBV-LMP
_____E-cadherin
_____EGFR
_____EMA
_____factor 8
_____factor 13
_____FSH
_____gastrin

_____GFAP
_____HBME-1
_____HbsAg
_____hCG
_____hemoglobin
_____hepatocyte
_____herpes zoster
_____hGH
_____HHV8
_____HMB45
_____hPL
_____
_____H. pylori
_____HSV
_____IgD
_____IgM
_____Inhibin-alpha
_____keratin 903
_____Ki-67 (MIB-1)
_____LH
_____lysozyme
_____Melan A (A 103)
_____MIC-2 (CD99)
_____MNF 116 (cytokeratin)
_____muscle specific actin (HHF35)
_____myeloperoxidase
_____myogenin
_____myoglobin
_____NK1-C3
_____NF
_____NSE
_____OCT-2
_____p16
_____p53

_____p63
_____PAP
_____parvovirus
_____PAX-5
_____PLAP
_____*Pneumocystis*
_____prolactin
_____PSA-mono
_____PSA-poly
_____PTH
_____S-100
_____SMMS (Smooth Muscle Myosin)
_____synaptophysin
_____TdT
_____thyroglobulin
_____TIA-1
_____Topo 2
_____tryptase
_____TSH
_____TTF-1
_____ubiquitin
_____villin
_____vimentin
_____WT-1

Plasma Cells:
_____CD138
_____kappa
_____lambda

_____CDX2 *fish*_____
_____CD1a
_____CD3 *cmts:*
_____CD4
_____CD5
_____CD7
_____CD8
_____CD10
_____CD15 LeuM1
_____CD20 L26
_____CD21
_____CD23
_____CD25
_____CD30
_____CD31
_____CD34
_____CD35
_____CD43
_____CD45 LCA
_____ UCHL-1
_____CD56
_____CD57 (Leu 7)
_____CD68
_____CD79a
_____DNA (paraffin)
_____estrogen receptor
_____progesterone receptor
_____Her-2 neu by IHC
_____Her-2 neu by FISH

IN-SITU & FISH:
_____Her-2 neu by FISH
_____kappa/lambda *in-situ*
_____EBV-EBER *in-situ*
_____HPV IN-SITU low risk
_____HPV IN-SITU high risk

For list of HPV probes in high and low cocktails, see back of sheet.

_____ Hodgkin's Protocol _____NHL Protocol _____ Mesothelioma Protocol _____Sentinel L. N. –Melanoma Protocol (Ab listed on back)

Date/Time Case Placed in Pick-up Box_____K903-p63/H.pyl/EGFR/p16/HER2 ***Control filed with case*** _____

***03-03-06 IHCREQ*** _____

**Protocols:**

_____ Hodgkin's Protocol

| |
|---|
| AE1, 3-Clean |
| ALK Prot |
| EBV-LMP |
| EBV-EBER |
| OCT-2 |
| Pax 5 |
| CD3 |
| CD15 |
| CD20 |
| CD30 |
| LCA |

_____NHL Protocol

| |
|---|
| bcl-2 |
| bcl-6 |
| Cyclin D1 |
| Ki-67 |
| Pax-5 |
| CD3 |
| CD5 |
| CD10 |
| CD20 |
| CD21 |
| LCA |
| CD138 |

_____ Mesothelioma Protocol

| |
|---|
| AE1, 3-Clean |
| B72.3 |
| Ber-EP4 |
| Calretinin |
| CEA-M |
| CK 5/6 |
| EMA |
| HBME-1 |
| CD15 |
| WT-1 |

_____ Melanoma Protocol-Sentinel Lymph Nodes

| |
|---|
| HMB 45 |
| Melan A |
| S-100 |
| 3 Deepers |

HPV Low risk Cocktail: condyloma
(family 6 probe)
genotypes 6,11,42,43, and 44.

HPV High risk Cocktail: condyloma & cervix
(family 16 probe)
genotypes 16,18,31,33,39,45,51,52,58, and 66

| *Ab* | *Neg* | | | | | | | | | | | Tech | QA Passed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Ctrl Bl.* | ----- | | | | | | | | | | | | |
| *Results* | | | | | | | | | | | | | |
| *Repeat* | | | | | | | | | | | | | |

| *Ab* | *Neg* | | | | | | | | | | | Tech | QA Passed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Ctrl Bl.* | ----- | | | | | | | | | | | | |
| *Results* | | | | | | | | | | | | | |
| *Repeat* | | | | | | | | | | | | | |