

Template for Reporting Results of Quantitative IHC Biomarker Testing of Specimens From Patients With Carcinoma

Version: 1.1.0.0

Protocol Posting Date: November 2021

The use of this protocol is recommended for clinical care purposes but is not required for accreditation purposes.

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With guidance from the CAP Cancer and CAP Pathology Electronic Reporting Committees. * Denotes primary author.

Accreditation Requirements

Completion of the template is the responsibility of the laboratory performing the biomarker testing and/or providing the interpretation. When both testing and interpretation are performed elsewhere (eg, a reference laboratory), synoptic reporting of the results by the laboratory submitting the tissue for testing is also encouraged to ensure that all information is included in the patient's medical record and thus readily available to the treating clinical team. This template is not required for accreditation purposes. At this point, the breast biomarker template should be used for ER, PR, Ki67, and HER2 reporting. The purpose of this template is to support a generic and extensible reporting framework for various IHC based biomarkers.

Summary of Changes

v 1.1.0.0

- Added accreditation requirements statement
- Reordering of the biomarkers
- Added Controls questions for HER2 and Ki-67
- Addition of a generic repeating section for reporting additional biomarkers

Reporting Template

Protocol Posting Date: November 2021 Select a single response unless otherwise indicated.

CASE SUMMARY: (Quantitative IHC Biomarker Reporting)

SPECIMEN INFORMATION

+Case Identifier: _____

The signation:	
+Anatomia Sita:	

+Anatomic Site: ______ +Diagnosis: _____

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+Biomarker(s) Assessed (select all that apply)

___ PD-L1 IHC

PD-L1 IHC Results

- +Interpretation
- ____ Positive
- ____ Negative
- Cannot be determined (indeterminate)
- +Percentage of Tumor Cells with Staining (TPS): ______%
- +Number of Tumor and Immune Cells with Staining per 100 Tumor Cells (CPS): _
- +Specify Percentage of Tumor-associated Immune Cells with Staining: _
- +Specify Percentage of Tumor Area Occupied by Tumor-associated Immune Cells:_____
- +Comments: _

PD-L1 Methods

- +Antibody
- ____22C3
- ____SP142
- ____ SP263
- 28-8
- ____ Other (specify):

+Controls (select all that apply)

- ____ Internal control cells present; expected immunoreactivity
- ____ Internal control cells present; no immunoreactivity of either tumor cells or internal controls
- ____ External controls available, expected immunoreactivity
- ____ External controls available; no immunoreactivity in expected cells

+Assay Information

- ____ Food and Drug Administration (FDA) cleared test / vendor (specify): _____
- ____ Laboratory-developed test

+Specify Quantitative Imaging Analytics Performed: _____

%

MMR IHC
MMR IHC Results
+Interpretation
No loss of nuclear expression of MMR proteins
Loss of nuclear expression of MLH1 and PMS2
Loss of nuclear expression of MSH2 and MSH6
Loss of nuclear expression of only PMS2 or MSH6
Other (specify):
Cannot be determined (indeterminate)
+Comments:
· oonments.
MMR Staining
+Nuclear MLH1 staining
Intact
Loss
Other (specify):
+Nuclear PMS2 staining
Intact
Loss
Other (specify):
+Nuclear MSH2 staining
Intact
Loss
Other (specify):
+Nuclear MSH6 staining
Intact
Loss
Other (specify):
MMR IHC Methods
+Controls (select all that apply)
Internal control cells present; expected immunoreactivity
Internal control cells present; no immunoreactivity of either tumor cells or internal controls

- ____ External controls available, expected immunoreactivity
- External controls available; no immunoreactivity in expected cells

+Assay Information

- ____ Food and Drug Administration (FDA) cleared test / vendor (specify): _____
- ____ Laboratory-developed test

+Specify Quantitative Imaging Analytics Performed:

_ HER2 IH	С
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HER2 IHC Results

- +Interpretation
- ____ Positive
- ____ Negative
- ____ Equivocal
- Cannot be determined (indeterminate)

+Scoring System

- Breast
- ____ Gastric
- ____ Other (specify): _____

+Score

- ____0
- ____1+
- ____2+
- ____ 3+
- ____ Other (specify): _____

+Specify Percentage of Cells with Uniform Intense Complete Membrane Staining:

_____%

+Comments: ____

HER2 IHC Methods

+Antibody

- ____ HercepTest
- ____ 4B5
- ____ SP3
- ____ Other (specify):

+Controls

- External controls available, expected immunoreactivity
- External controls available; no immunoreactivity in expected cells

+Assay Information

- ____ Food and Drug Administration (FDA) cleared test / vendor (specify): _____
- ____ Laboratory-developed test

+Specify Quantitative Imaging Analytics Performed:

_ Estrogen Receptor IHC
Estrogen Receptor IHC Results
+Interpretation
Positive
Negative
Cannot be determined (indeterminate)
+Specify Tumor Cell Percent Positive:%
+Tumor Cell Staining Intensity
Strong
Moderate
Weak
Other (specify):
+Comments:
Estrogen Receptor IHC Methods
+Antibody
SP1
6F11
1D5
Other (specify):
+Controls (select all that apply)
Internal control cells present; expected immunoreactivity
Internal control cells present; no immunoreactivity of either tumor cells or internal controls

- External controls available, expected immunoreactivity
- External controls available; no immunoreactivity in expected cells

+Assay Information

- Food and Drug Administration (FDA) cleared test / vendor (specify):
- ____Laboratory-developed test

+Specify Quantitative Imaging Analytics Performed: _____

Progesterone Receptor IHC Progesterone Receptor IHC Results +Interpretation Positive Negative Cannot be determined (indeterminate)
+Specify Tumor Cell Percent Positive:%
+Tumor Cell Staining IntensityStrongModerateWeakOther (specify):
+Comments:
Progesterone Receptor IHC Methods +Antibody 1E2 636 SP2 Other (specify):
 +Controls (select all that apply) Internal control cells present; expected immunoreactivity Internal control cells present; no immunoreactivity of either tumor cells or internal controls External controls available, expected immunoreactivity External controls available; no immunoreactivity in expected cells +Assay Information

+Specify Quantitative Imaging Analytics Performed:

_ Ki-67 IHC	
Ki-67 IHC Results	
+Specify Tumor Cell Percent Positive: %	
+Comments:	
Ki-67 IHC Methods	
+Antibody	
MIB1	
Other (specify):	
+Controls	
External controls available, expected immunoreactivity	
External controls available; no immunoreactivity in expected cells	
+Assay Information (eg., Laboratory-developed Test):	
	-
+Specify Quantitative Imaging Analytics Performed:	
	7

	rker(s) (may repeat for up to 10 biomarkers) iomarker :
Resu	
	+Interpretation
	Positive
	Negative
	Cannot be determined (indeterminate)
	+Tumor Cell Staining Intensity :%
	+Comments :
Meth	
	+Specify Antibody :
	+Controls (select all that apply)
	 Internal control cells present; expected immunoreactivity Internal control cells present; no immunoreactivity of either tumor cells or internal
	controls
	External controls available, expected immunoreactivity
	External controls available; no immunoreactivity in expected cells
	+Assay Information
	Food and Drug Administration (FDA) cleared test / vendor (specify) :
	Laboratory-developed test
	+Specify Quantitative Imaging Analytics Performed :
COMMENTS	
Comment(s)	·