

IMMUNOHISTOCHEMISTRY, c-erb B2 (HER-2-neu)

c-erb B2 (HER-2-neu) (Immunohistochemistry)	RESULT	SCORE	REFERENCE RANGE
---	--------	-------	-----------------

SLIDE NO :

SPECIMEN:

CLINICAL HISTORY :

GROSS:

IMPRESSION:

ADVISED:

COMMENTS

c-erb B2 (HER-2-neu) is an oncogene that encodes a transmembrane glycoprotein with tyrosine kinase activity known as p185 belonging to the family of epidermal growth factor receptors. Overexpression can be measured by Immunohistochemistry / FISH and a good correlation exists between the two methods. Tumors that are positive will respond to Trastuzumab (Herceptin). Overexpression is seen in Breast carcinoma (22%), Lung adenocarcinoma (28%), Colorectal carcinoma (17%), Lung squamous cell carcinoma (11%) and Gastric adenocarcinoma (11%). Clone for HER-2 NEU is EP 1045 Y Rabbit Monoclonal.

STAINING PATTERN	SCORE	RESULT
No staining is observed in invasive tumor cells	0	Negative
Weak incomplete membrane staining in any proportion of invasive tumor cells.	1+	Negative
Complete membrane staining that is non-uniform or weak but with obvious circumferential distribution in any proportion of tumor cells, or intense complete membrane staining in 30% or less of tumor cells.	2+	Weakly positive
Uniform intense membrane staining of > 30% invasive tumor cells.	3+	Strongly positive

Remarks: c-erb B2 by FISH technique is recommended for scores of 1+ and 2+.

NOTE:

1. Detection system used is Polymer HRP
2. The impression is based on the material submitted and is not a complete surgical pathology report.
3. False negative IHC results due to inadequate fixation of the material sent for evaluation cannot be excluded.

FIXATION REQUIREMENTS

- A. The volume of formalin fixative should be atleast 10 times the volume of the specimen.
- B. Decalcification solutions with strong acids should not be used.
- C. Specimens should be immersed in fixative within 1 hour of the biopsy / resection procedure (time of removal & time of immersion to be mentioned)
- D. In all resection (large) specimens, the tumour must be bisected prior to immersion in fixative.
- E. For Her 2-neu by IHC, the specimen must be fixed in 10% Neutral buffered formalin for atleast 6 hours and upto a maximum of 48 Hours.