

## IMMUNOHISTOCHEMISTRY, CARCINOEMBRYONIC ANTIGEN (CEA)

IHC MARKER	RESULT
CEA (CARCINOEMBRYONIC ANTIGEN)	

SLIDE NO:

SPECIMEN:

CLINICAL HISTORY:

GROSS:

IMPRESSION:

ADVISED:

INTERPRETATION

RESULT	SCORE
Non immunoreactive	0
Immunoreactive in 1-25% cells	1+
Immunoreactive in 26-50% cells	2+
Immunoreactive in 51-75% cells	3+
Immunoreactive in 76-100% cells	4+

## Comments

**Carcinoembryonic Antigen (CEA):** This is a glycoprotein of heterogenous composition detected in the glycocalyx of fetal epithelial cells, particularly those of mucin-secreting glandular nature. It is detectable only in small amounts in normal adult cells and benign tumors but is present in large quantities in carcinomas, particularly in Adenocarcinomas of the gastrointestinal tract (including pancreas) and lung and in thyroid Medullary carcinoma. As it is primarily expressed by fetal tissues and malignant tumors, it is referred to as an oncofetal antigen.

### 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