

## IMMUNOHISTOCHEMISTRY, CYTOKERATIN-7 (CK-7)

IHC MARKER	RESULT
CK-7 (CYTOKERATIN-7)	

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

**CK-7:** Cytokeratins are a family of water insoluble intracellular fibrous proteins present in almost all epithelia. At least 20 well defined subclasses of keratins have been identified on the basis of their molecular weight. They show a tissue specific distribution throughout the epithelia which can be mapped using a battery of monoclonal antibodies. The use of individual keratins gives important information about the site of origin of a carcinoma.

MONOCLONAL ANTIBODIES	TUMORS
CK7 + / CK 20 +	Carcinomas of Pancreas, Bile duct and urothelium and 1/3rd Gastric carcinomas.
CK7 + / CK 20 -	Carcinomas of Lung, Breast, Endometrium, Ovary, Thyroid & Salivary gland as well as Mesotheliomas.
CK7 - / CK 20 +	Carcinomas of Large Bowel, 1/3rd Gastric adenocarcinoma & Merkel cell carcinoma
CK7 - / CK 20 -	Carcinomas of Adrenal cortex, Liver & Kidney

### 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

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