

## **ImmunoHistoChemistry (IHC) Facility IIT Bombay**

**Preamble:** Immunohistochemistry (IHC) is a technique used in pathology and molecular biology to identify and visualize specific proteins within tissue samples. This method utilizes antibodies that selectively bind to specific antigens within tissue sections, which are then visualized using either a fluorophore or a coloured substrate. By identifying stained proteins and their respective locations, IHC helps in understanding the types of cells present and their roles within the tissue. The IHC process can be divided into three main stages: sample preparation, staining, and imaging. In this facility, we have the many equipment including Tissue Processor (STP 120), Embedding System (Thermo Scientific HistoStar), Microtome (HM 340E), Cryostat (HM 525NX), EZ – Retriever® IR System (for antigen retrieval from tissue samples), and Thermo Scientific Gemini AS Automated Stainer.

### **Registration Form for Internal Users**

1. Name and designation of User:
2. Name of the Department:
3. Name of the PI:
4. Lab Name:
5. Project Code (from which the charges will be deducted):
6. Extension No:
7. Mobile No:
8. Email ID:

### **Information related to the experiment/sample**

9. Title of Study:
10. Institute Animal Ethics Committee (IAEC) and/or Institute Ethics Committee (IEC) approval details:  
(Please attach a copy of IEC/IAEC approval letter and Form B).
11. Institutional Biosafety Committee (IBSC) approval details:  
(Please attach a copy of IBSC approval letter).

*Please note that we will not process any infectious tissues from humans or animals, nor any infectious disease models. Incomplete forms or missing ethical clearance documentation may delay processing of the request.*

12. Type of Sample (e.g., tissue or cell):

13. Species (e.g., human, mouse, rat, etc.):

14. Number of samples:

15. Whether the tissue is fixed or fresh sample (e.g., fixed, paraffin-embedded blocks, frozen):

16. If the tissue is fresh, is it infectious or biohazardous? (Yes/No)

Note: Infectious samples will not be processed

17. List any special requirements or instructions for handling or processing samples:

**Declaration:** The project details and ethical clearance and institute biosafety committee approval information are accurate. No infectious samples have been provided.

**Signature and stamp of the PI with date:**

*Please send us a copy of the publication/thesis report*

**For Official Use only: -**

External User Registration No: \_\_\_\_\_ Date: \_\_\_\_\_

Date of experiment:	Name of the operator:
Results sent date:	Signature of operator:

**Finalized Budget details:**

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