

pHH3 (BC37)

Format	Catalog No.	Pack size	Dilution
Concentrated	GB3130 A, B, C	0.1, 0.5, 1.0 mL	1:100
Prediluted	GB3130 AA, BB	6.0, 3.0 mL	Ready to use

ANTIBODY SPECIFICATIONS

- **Host Species:** Rabbit
- **Clone:** BC37
- **Isotype:** IgG
- **Immunogen:** Human (others not tested)
- **Buffer:** Tris-HCl with stabilizers and <0.1% ProClin
- **Target Location:** Nuclear (Mitotic figures)

INTENDED USE

- For Research use only (RUO)

It is designed for the immunohistochemical detection of phosphorylated Histone H3 (Ser10) in formalin-fixed, paraffin-embedded tissues. It is not approved for diagnostic or therapeutic procedures.

SCIENTIFIC BACKGROUND

Histone H3 is a nuclear protein that plays a central role in chromatin structure and gene regulation. During mitosis, phosphorylation at serine 10 (Ser10) is a critical modification that correlates with chromosome condensation and cell division. The phosphorylated form, known as pHH3, is tightly linked to the G2/M phases of the cell cycle. As such, it serves as a precise marker for mitotic figures in tissue sections and is widely used in oncology to assess proliferative activity in tumors. This makes pHH3 a valuable tool in cancer research and pathology.

SPECIES REACTIVITY: Human

POSITIVE CONTROLS: Tonsil, Melanoma

EPITOPE: Phospho-Ser10 of Histone H3

LIMITATIONS

- Interpretation must be made by a qualified pathologist
- Tissue fixation and handling may affect staining quality
- Negative results do not always indicate absence of antigen—consider panel testing

RECOMMENDED USAGE

- **IHC Protocol Highlights:**
 - Dilution: 1–2 µg/mL
 - Incubation: 30 minutes at room temperature



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- Antigen retrieval: Tris-EDTA buffer (pH 9.0), heat at 95°C for 45 minutes, cool at RT for 20 minutes
- **Specimen Type:** FFPE sections, preferably ~4 µm

STORAGE CONDITIONS:

- With preservative: 2–8°C
- After dilution: stable up to 7 days at RT, 3 months at 2–8°C, 6 months at –20°C

PRECAUTIONS

- Contains 0.05% sodium azide – avoid ingestion and contact with skin or mucosa
- Wear gloves and avoid contact with eyes or mucosa
- Do not use reagents past expiration or if packaging appears compromised
- Do not pipette by mouth or reuse slides/containers without proper sterilization

TECHNICAL SUPPORT

For technical assistance, please contact Genebio Solution's Technical Support at www.genebiosolution.com



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