

GENTAUR IHC

Epitope Retrieval System

Efficient Heat-Induced Antigen Retrieval for FFPE Tissues



◆ Product Description

The Gentaur IHC Epitope Retrieval System is engineered to deliver consistent, high-quality antigen unmasking for immunohistochemistry (IHC) workflows. Designed for use with formalin-fixed paraffin-embedded (FFPE) tissue sections, the system enables precise heat-induced epitope retrieval (HIER) using standardized steam-based protocols.

Why Antigen Retrieval Matters

Formalin fixation preserves tissue morphology but can mask epitope sites, blocking antibody binding. To restore immunoreactivity, tissues require antigen retrieval. Gentaur's solution supports :

- HIER (Heat-Induced Epitope Retrieval) : Preferred method due to high efficiency and preservation of tissue integrity.
- PIER (Protease-Induced Epitope Retrieval) : Less consistent; may cause tissue damage. Not recommended for sensitive samples.

HIER Protocol (Steam-Based)

1. Preheat staining container in the steamer to 97°C with retrieval buffer.
2. Place slides inside; wait for temperature to return to 97°C
3. Start retrieval timing (10–30 min depending on protocol).
4. Cool buffer to ~60°C for 20 minutes.
5. Proceed with IHC staining.

