

Growth Hormone (GM140)

Format	Catalog No.	Pack size	Dilution
Concentrated	G2451A A, B, C	0.1, 0.5, 1.0 mL	1:100
Prediluted	G2451A AA, BB	6.0, 3.0 mL	Ready to use

Antibody Specifications:

- **Host Species:** Mouse
- **Clone:** GM140
- **Isotype:** IgG2b, Kappa
- **Immunogen:** Recombinant human Growth Hormone (aa 58–187)
- **Buffer:** Tris-HCl with stabilizers and <0.1% ProClin
- **Target Location:** Cytoplasmic

INTENDED USE

This monoclonal antibody is designed for professional use in immunohistochemistry (IHC) for identifying growth hormone (GH) in FFPE tissue sections. It assists pathologists in characterizing pituitary adenomas and evaluating related endocrine pathologies like acromegaly.

SCIENTIFIC BACKGROUND

Growth hormone (GH), secreted by the anterior pituitary, regulates growth and cellular metabolism by initiating signaling cascades through its receptor (GHR). GH expression can be indicative of pituitary pathology. This antibody is a useful tool for identifying GH-producing cells and distinguishing pituitary tumor subtypes.

SPECIES REACTIVITY: Human

POSITIVE CONTROLS: Normal pituitary tissue or pituitary adenoma

MOLECULAR WEIGHT: 33–34 kDa

LIMITATIONS

- For Research use only (RUO)
- 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:**
 - Deparaffinization, followed by Tris-EDTA (pH 9.0) antigen retrieval at 100°C for 40 minutes (pressure cooker recommended)
 - Primary antibody incubation: 30 minutes at room temperature



- Detection: HRP polymer system with chromogen and hematoxylin counterstain

- **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 low concentration of ProClin; not classified as hazardous
- 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



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