

INHIBIN ALPHA (R1)

Format	Catalog No.	Pack size	Dilution
Concentrated	G14087 A, B, C	0.1, 0.5, 1.0 mL	1:100 - 200
Prediluted	G14087 AA, BB	6.0, 3.0 mL	Ready to use

ANTIBODY SPECIFICATIONS

- **HOST SPECIES:** Mouse
- **CLONE:** R1
- **ISOTYPE:** IgG2a/Kappa
- **CELLULAR LOCALIZATION:** Cytoplasmic
- **IMMUNOGEN:** A synthetic peptide corresponding to aa1-32 of human inhibin alpha subunit
- **MOLECULAR WEIGHT:** ~47 kDa
- **SPECIES REACTIVITY:** Human
- **POSITIVE CONTROLS:** Adrenal cortex

INTENDED USE

This antibody is intended **for research use only (RUO)** and is not approved for diagnostic or therapeutic applications. It is optimized for the detection of Inhibin alpha protein in formalin-fixed, paraffin-embedded (FFPE) human tissues by immunohistochemistry (IHC).

SUMMARY AND APPLICATION

The glycoprotein hormone known as inhibin-alpha (R1) is a subunit of the inhibin hormone, which prevents the release of follicle-stimulating hormone (FSH). The Sertoli cells in the male seminiferous tubules and the granulosa cells in female follicles produce inhibin, which belongs to the transforming growth factor- β (TGF- β) superfamily. Alpha and beta subunits make up inhibin, and the beta subunits of the two types (inhibin A and inhibin B) vary.

SCIENTIFIC BACKGROUND

Alpha and beta subunits make up the dimeric glycoprotein hormone known as inhibin, which belongs to the TGF-beta family. It actively promotes the generation of FSH while blocking the pituitary's ability to produce follicle-stimulating hormone. Inhibin may suppress gonadal tumours, according to some theories.

RECOMMENDED USAGE

- **IHC Protocol Highlights:**
 - Dilution: 1–2 μ g/mL
 - Incubation: 30 minutes at room temperature
 - Antigen Retrieval: Heat in 10 mM Tris with 1 mM EDTA (pH 9.0) at 95°C for 45 minutes, followed by cooling
- **Specimen Type:** FFPE sections, preferably ~4 μ m

FORMULATION & STORAGE:

- Buffer: 10 mM PBS, 0.05% BSA, 0.05% sodium azide
- Storage:
 - o Dilution: 1–2 µg/MI
 - o Without azide: –20 to –80°C
- Shelf Life: 24 months under proper conditions
- Hazard Classification: Non-hazardous; no MSDS required

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

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