



## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

# Certificate of Analysis and Data Sheet Rabbit anti-Inhibin antibody

**Catalog No.**  
130-10029

**Isotype:**  
Rabbit Ig G

**Species:**  
Human

**Accession No:**  
P08476

## Description

Inhibin, which belong to the TGF- $\beta$  protein superfamily, inhibits FSH production and GnRH release from the hypothalamus. Inhibins are dimeric peptide hormones produced by female ovarian granulosa cells and male Sertoli cells as well as a variety of other tissues. Inhibins have two isoforms, A and B, with the same alpha subunit but different beta subunits. Inhibin A is a dimer of alpha and beta A subunits, inhibin B is a dimer of alpha and beta B subunits.

Inhibins can inhibit the production of follicle-stimulating hormone (FSH) by the pituitary gland. In addition, Inhibins also play a role in the control of gametogenesis, and embryonic and fetal development.

Inhibins and activins inhibit and activate, respectively, the secretion of follitropin by the pituitary gland. Inhibins/activins are involved in regulating a number of diverse functions such as hypothalamic and pituitary hormone secretion, gonadal hormone secretion, germ cell development and maturation, erythroid differentiation, insulin secretion, nerve cell survival, embryonic axial development or bone growth, depending on their subunit composition. Inhibins appear to oppose the functions of activins.

## Applications

**Table Summary of antibody applications and working conditions**

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1:2000 (at least detecting 500ng/ml)
Western Blotting			*	
Enzyme Immunoassay(EIA)			*	
Immunohistology - paraffin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### Preparation

Immunogen was synthetic peptide derived from Human inhibin beta. This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum by ammonium sulphate precipitation followed by Protein A/G affinity chromatography.

### Binding Activity

The antibody can specifically bind to its immunogen, and did not show any cross reactivity with unrelated antigens in ELISA. The specificity for binding to recombinant protein, cellular protein and native antigen is not defined. Cross reactivity with the protein from other species was not tested yet.

### Reconstitution

Supplied as lyophilized and purified antibody originally containing PBS, without **Preservative Stabilizers**, like Sodium Azide. ***It final concentration is indicated in shipping vial.***

The antibody is stable for at least years from the data of receipt when stored at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . Reconstituted antibody (suggesting with sterile PBS) can also be aliquotted and stored frozen at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  in a manual defrost freezer for months without detectable loss activity. Upon reconstitution, the antibody can also be stored over months at  $4^{\circ}\text{C}$ . **Please avoid freeze-thaw cycles.**

### Storage

Keep it at  $4^{\circ}\text{C}$  if intended for use within a month. Store at  $-20^{\circ}\text{C}$  if over months. **Minimize freezing and thawing when use.**

### Related products

1. RayBio® Inhibin-A EIA Kit for Serum, Plasma, Culture Supernatant and Cell Lysates (Cat#EIA-INA-1)
2. Recombinant Human Inhibin-Alpha (Cat#228-10962-3)
3. Rabbit anti inhibin A(Alpha), RB-13-0006
4. Rabbit anti inhibin A(beta A chain), RB-13-0007
5. Rabbit anti Inhibin B (beta B)-C-terminus, RB-16-0003

### Reference

Chen YG, et.al., (2006). Activin signaling and its role in regulation of cell proliferation, apoptosis, and carcinogenesis. *Exp. Biol. Med.* (Maywood) 231 (5): 534–44.

Myers GM, Lambert-Messerlian GM, Sigman M (November 2008). "Inhibin B reference data for fertile and infertile men in Northeast America". *Fertil. Steril.* 92 (6): 1920–3.

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