



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## SHEEP ANTI CORTISOL

With HRP-conjugated secondary antibody

**Catalog No.**  
DS-PB-00537

**Species:**  
Broad

**Isotype:**  
Sheep IgG

### Description

Cortisol is the most potent glucocorticoid produced by the human adrenal cortex. It is synthesized from cholesterol and its production is stimulated by pituitary adrenocorticotrophic hormone (ACTH), which is regulated by corticotropin releasing factor (CRF). ACTH and CRF secretions are inhibited by high Cortisol levels in a negative feedback loop. In plasma, the majority of Cortisol is bound with high affinity to corticosteroid binding globulin (CBG), also referred to as transcortin. Cortisol acts through specific intracellular receptors. It is involved in the human response to stress by increasing blood pressure and blood sugar levels, while suppressing the immune system.

### Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			1/500 - 1/2500
Western Blotting			•	
Immunohistology - frozen			•	
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry			•	
Immunofluorescence staining			•	
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 Cortisol-21-hemisuccinyl-KLH/BSA/Fetuin mixture. The IgG fraction of tissue culture supernatant was purified by ammonium sulphate precipitation

### Specificity

DS-PB-00537 recognizes the glucocorticoid hormone cortisol, produced in the adrenal cortex and involved in responses to stress.

The following cross reactivities have been observed:

Cortisol 100%

Corticosterone >90%

### Reconstitution

Supplied as 1ml of purified antibody. It is reconstituted with sterile PBS.

**Please avoid freeze-thaw cycles.**

### Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

### Storage

Store at -20°C, if not intended for use within a month. Keep it at 4°C and minimize freezing and thawing when use.

### Reference

Parry, B.L., Javeed, S., Laughlin, G.A., Hauger, R. and Clopton, P. 2000. Cortisol in premenstrual dysphoric disorder and normal control subjects. *Biol. Psychiatry* 48: 920-931.

Shamim, W., Yousufuddin, M., Bakhai, A., Coats, A.J. and Honour, J.W. 2001. Gender differences in the urinary excretion rates of Cortisol and androgen metabolites. *Ann. Clin. Biochem.* 37: 770-774.

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