



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## RABBIT ANTI HUMAN ANGIOTENSIN II

With HRP-conjugated secondary antibody

**Catalog :**  
DS-PB-00170

**Species:**  
Human

**Isotype:**  
Rabbit IgG

### **Description**

Angiotensin is formed from a precursor, angiotensinogen, which is produced by the liver and found in the alpha-globulin fraction of plasma. The lowering of blood pressure is a stimulus to secretion of renin by the kidney into the blood. Renin cleaves from angiotensinogen a terminal decapeptide, angiotensin I (Ang I). This is further altered by the enzymatic removal of a dipeptide to form angiotensin II (Ang II). Screening a panel of human-mouse somatic cell hybrids confirmed the assignment of the AGT locus to human chromosome 1. Ang II, an octapeptide hormone, is an important physiological effector of blood pressure and volume regulation through vasoconstriction, aldosterone release, sodium uptake and thirst stimulation. Mechanical stress causes release of Ang II from cardiac myocytes and that Ang II acts as an initial mediator of the hypertrophic response. Ang II treatment also stimulates phosphorylation of Shc, FAK, and MAP kinases and induces MKP- 1, indicating stimulation of growth factor pathways. Ang II stimulation through AT1 has been shown to activate the JAK Stat pathway involving a direct interaction between JAK2 and AT1 as demonstrated by coimmunoprecipitation.

### **Preparation**

This product uses RSA/RaIg conjugated as the immunogen. IgG is prepared with Ammonium Sulphate fractionation and further purified by affinity column.

### **Specificity**

DS-PB-00170 is specific for Angiotensin II 100% Angiotensin III 75% Angiotensin I 20%.

### **Reconstitution**

Supplied as 1ml of purified liquid antibody in PBS with pH 7.2, containing 1% BSA and 0.1% Sodium Azide. Its final concentration is 0.52 mg/ml. **Please avoid freeze-thaw cycles.**

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



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### Applications

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

| <b>Options / Functions</b>  | <b>YES</b> | <b>NO</b> | <b>Not determined</b> | <b>Recommended Work dilution or concentration</b> |
|-----------------------------|------------|-----------|-----------------------|---|
| ELISA                       | •          |           |                       |   |
| 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.

### Secondary Antibody Applications

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

### Storage

Store at -20°C only.

Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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