

## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Rabbit Anti-Human Acrp30 Antibody

<b>Catalog No:</b> 130-10074	<b>Isotype:</b> Rabbit IgG	<b>Species:</b> Human	<b>Accession No:</b> Q15848
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### Description

Acrp30 (also known as Adiponectin), is a major adipokine secreted into the bloodstream from adipose tissue to modulate metabolism, including glucose regulation and fatty acid catabolism. Unlike most other adipokines, Adiponectin is secreted exclusively by differentiating adipocytes at reduced levels during obesity. The serum level of Adiponectin is inversely correlated with BMI (body mass index) of an individual, and has an anti-inflammatory action, playing an important role in type II diabetes (insulin sensitivity) and atherosclerosis.

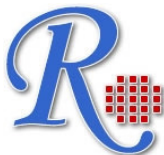
### Applications

#### Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1 : 80,000
Western Blotting			*	
Enzyme Immunoassay (EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
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 a synthetic peptide derived from human Acrp30. This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum followed by Protein A/G affinity chromatography.

### ***Specificity***

The antibody can specifically bind to human Acrp30 with no cross reactivity to unrelated antigens in ELISA. The specificity for binding to recombinant protein, cellular protein and native antigen is not defined. Cross reactivity with mouse or rat Acrp30 was not tested.

### ***Reconstitution***

Product is supplied as a powder obtained from lyophilization of purified antibody in PBS without preservatives. Reconstitute the antibody with sterile 1 x PBS to a final concentration of 1 mg/ml.

### ***Storage***

Store at 4°C if intended for use within one month, otherwise, store at -20°C to -80°C. The lyophilized antibody is stable for at least 18 months after the date of receipt when stored at -20°C to -80°C. After reconstitution, it can also be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for at least 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 30 days at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

### ***Related products***

1. Rabbit Anti-Adiponectin / Acrp30, C-terminus (cat# DS-PB-00079)
2. RayBio® Human Adiponectin / Acrp30 ELISA Kit (cat# ELH-Adiponectin-001 )
3. RayBio® Adiponectin / Acrp30 EIA Kit (cat# EIA-ACRP-1)

### ***Reference***

Lihn, A.S. et al. (2005) Adiponectin: action, regulation and association to insulin sensitivity. *Obes. Rev.* 6: 13-21.

Trayhurn, P. and Wood, I.S. (2005) Signalling role of adipose tissue: adipokines and inflammation in obesity. *Biochem. Soc. Trans.* 33: 1078-1081.

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