

Adiponectin is a new member of the ever increasing family of adipocytokines. This protein is also known as ACRP-30 (adipocyte complement related protein-30), Adipo-Q, and APM-1 (adipose tissue most abundant gene transcript-1). It is the predominant secretory protein from adipose tissue and circulates in micro-gram per ml quantities. Adiponectin has structural homology with type VIII collagen and hibernation specific protein, C1q.

In contrast to the majority of secreted proteins from adipose tissue, which are elevated in obesity, adiponectin appears to be either decreased or unaltered with degree of adiposity. More intriguingly, adiponectin seems to ameliorate the obesity related risk factors unlike other adipose tissue secretory proteins, which contribute to the health risks associated with obesity. Adiponectin also has insulin sensitizing effect, which makes it an excellent candidate for drug development for obesity and diabetes.

• All components are included in each kit (standards, antibody, tracer, quality controls, precipitating reagent and buffers) to complete a RIA.

**CATALOG NO.**  
HADP-61HK

## Human Adiponectin RIA Kit

**QUANTITY**  
125 Tube Kit

Circulating adiponectin levels appear to be an excellent biochemical to monitor insulin sensitivity in a spectrum of insulin resistant patients such as type II diabetes, obese subjects, syndrome "X", etc. during therapeutic intervention.

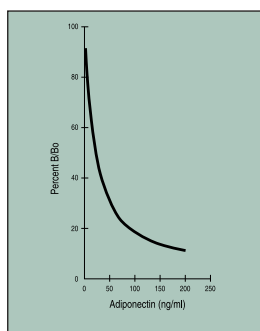
**LABEL:** <sup>125</sup>I-Adiponectin (20,000 CPM/tube)

**SPECIFICITY:**

C1q Human	< 0.01%
Mouse Adiponectin	400%

**ACCURACY:**

Serum Sample Concentration 1:500 Dilution	Recovery
Standard (ng/mL)	
5	116%
20	111%
100	101%



**PERFORMANCE:**

ED <sub>80</sub> =	3.9 ± 0.7 ng/mL
ED <sub>50</sub> =	23.5 ± 5.2 ng/mL
ED <sub>20</sub> =	157.8 ± 49.6 ng/mL

**ASSAY CONDITIONS:**

Overnight incubation at room temperature.  
Sample volume ≤ 2 µL serum or plasma, or ≤ 100 µL tissue culture media.

**PRECISION:**

Serum Sample Concentration 1:500 Dilution	Coefficient of Variation
3 ng/mL	9.3%
6 ng/mL	6.9%
15 ng/mL	9.3%

**CATALOG NO.**  
MADP-60HK

## Mouse Adiponectin RIA Kit

**QUANTITY**  
125 Tube Kit

Circulating adiponectin levels appear to be an excellent biochemical marker for improved insulin sensitivity. The mouse adiponectin kit is suitable to determine adiponectin levels in rat serum.

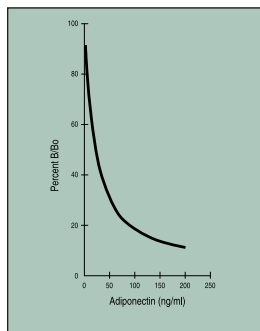
**LABEL:** <sup>125</sup>I-Adiponectin (20,000 CPM/tube)

**SPECIFICITY:**

Human Adiponectin	20%
Rat Adiponectin	Very High*

**ACCURACY:**

Serum Sample Concentration 1:1,000 Dilution	Recovery
Standard (ng/mL)	
5	105%
20	114%
50	109%



**PERFORMANCE:**

ED <sub>80</sub> =	1.2 ± 0.13 ng/mL
ED <sub>50</sub> =	5.2 ± 0.68 ng/mL
ED <sub>20</sub> =	22.6 ± 3.83 ng/mL

**ASSAY CONDITIONS:**

Overnight incubation at room temperature.  
Sample volume ≤ 2 µL serum or plasma, or ≤ 100 µL tissue culture media.

**PRECISION:**

Serum Sample Concentration 1:1,000 Dilution	Coefficient of Variation
3 ng/mL	14.8%
25 ng/mL	11.9%

\* Determined by parallel serial dilution of rat serum to mouse standards.

**THIS KIT IS FOR RESEARCH PURPOSES ONLY.**

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# Comparison of Human Adiponectin Levels by RIA and ELISA

