



20180221BB

# Anti-Mouse Adiponectin (Acrp30) (#7J61)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>103-M214</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat immunized with purified mouse recombinant Adiponectin. The IgG2 fraction of the culture supernatant was purified by Protein A/G affinity chromatography.

## Target Background

<b>Synonyms (Target):</b>	Adipoq; APN; Acdc; apM1; 30 kDa; GBP28; adipo; Acrp30
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Adiponectin, also known as Acrp30, is an adipocyte-derived protein with wide ranging paracrine and endocrine effects on metabolism and inflammation. It promotes adipocyte differentiation, fatty acid catabolism, and insulin sensitivity, and is negatively correlated with obesity, type 2 diabetes, and atherogenesis. In this context, adiponectin is an antiinflammatory agent, but it exerts proinflammatory effects in nonmetabolic disorders such as rheumatoid arthritis and inflammatory bowel disease. Adiponectin interacts with the receptors AdipoR1 and AdipoR2, calreticulin, and Cadherin13/ T-Cadherin, as well as with several growth factors. Mature mouse adiponectin consists of a 66 amino acid (aa) N-terminal collagenous region and a 137 aa C terminal C1q like globular domain which can be cleaved by a leukocytederived elastase. Mature mouse adiponectin shares 83% and 91% amino acid (aa) sequence identity with human and rat adiponectin, respectively. Adiponectin associates into trimers that may assemble into medium molecular weight (MMW) hexamers and then into >300 kDa high molecular weight (HMW) oligomers. The glycosylation of four hydroxylated lysine residues in the collagenous domain is required for the intracellular formation of HMW complexes. The various multimeric forms of adiponectin exhibit distinct tissue specific and gender specific profiles and activities.

## Database References Target

<b>Protein RefSeq:</b>	NP_033735.3
<b>Uniprot ID:</b>	Q60994
<b>mRNA RefSeq:</b>	NM_009605.4

## Product Specifications

<b>Host</b>	Rat
<b>Reactivity against</b>	Mouse
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#7J61)
<b>Isotype</b>	IgG2
<b>Purification</b>	Protein G chromatography
<b>Antigen</b>	recombinant mouse Adiponectin
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	PBS (sterile)

**Reconstitution:** Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

**Remarks:** This antibody was selected for its ability to detect Adiponectin in Western blotting. It is cross reactive to human Adiponectin protein in Western blotting.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

The antibody can be used within the following applications:  
WB

### Recommended usage:

Western Blot: 1:500 - 1:1000

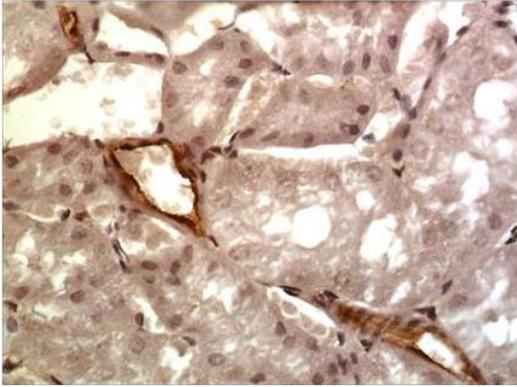
**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**



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### Handling/Applications



**Fig. 1:** The Kidney tissue samples from the Folic Acid-induced kidney injury model were fixed using 4% PFA at 4°C for overnight and embedded in paraffin. A 4 µm section was subjected to IHC (1:100-200).  
Antigen retrieval: Citrate Buffer, Microwave