

For Research Use Only

# Rat Adiponectin Recombinant antibody, PBS Only (Detector)

Catalog Number: 83525-2-PBS



## Basic Information

<b>Catalog Number:</b> 83525-2-PBS	<b>GenBank Accession Number:</b> NM_144744.3	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 246253	<b>CloneNo.:</b> 240392D6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8K3R4	
<b>Isotype:</b> IgG	<b>Full Name:</b> adiponectin, C1Q and collagen domain containing	
	<b>Calculated MW:</b> 26 kDa	
	<b>Observed MW:</b> 26-28 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
mouse, rat

## Product Information

83525-2-PBS targets Adiponectin as part of a matched antibody pair:

MP00522-1: 83525-3-PBS capture and 83525-2-PBS detection (validated in Cytometric bead array)

MP00522-2: 83525-1-PBS capture and 83525-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Background Information

Adiponectin (AdipoQ), an adipocyte-derived hormone, is one of the most abundant adipokines in the blood circulation. Adiponectin modulates a number of metabolic processes, including improving INS sensitivity and anti-inflammatory activity. The role of AdipoQ in reproduction is not yet fully understood, but the expression of AdipoQ in reproductive tissues has been observed in various animals and humans, including chicken testis, bovine ovary, and human placenta. Adiponectin exerts its effects by activating a range of different signaling molecules via binding to two transmembrane AdipoQ receptors, AdipoR1 and AdipoR2. AdipoR1 is expressed primarily in the skeletal muscle, whereas AdipoR2 is predominantly expressed in the liver. AdipoQ May play a role in cell growth, angiogenesis and tissue remodeling by binding and sequestering various growth factors.

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

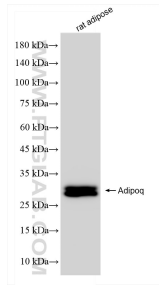
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

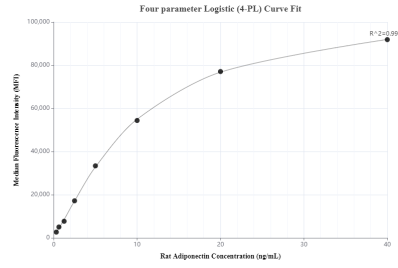
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

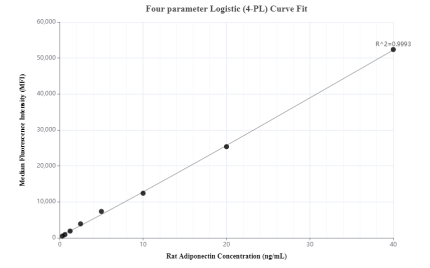
## Selected Validation Data



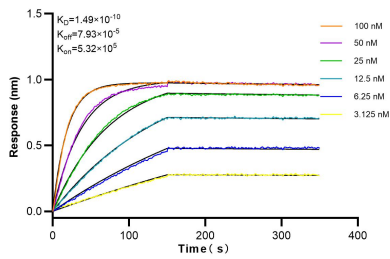
rat adipose tissue were subjected to SDS PAGE followed by western blot with 83525-2-RR (Adiponectin antibody) at dilution of 1:7500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83525-2-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00522-1, RAT Adiponectin Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83525-3-PBS. Detection antibody: 83525-2-PBS. Standard: Eg0872. Range: 0.313-40 ng/mL.



Cytometric bead array standard curve of MP00522-2, RAT Adiponectin Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83525-1-PBS. Detection antibody: 83525-2-PBS. Standard: Eg0872. Range: 0.313-40 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 83525-2-RR against Rat Adiponectin were performed. The affinity constant is 0.149 nM.