

Anti-Adiponectin Antibody [PSH05-48] - BSA and Azide free

HA751007



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, IF-Tissue
Molecular Wt:	Predicted band size: 26 kDa
Clone number:	PSH05-48

Description: Adiponectin is a protein hormone that modulates a number of metabolic processes, including glucose regulation and fatty acid oxidation. Adiponectin is secreted from adipose tissue (and also from the placenta in pregnancy) into the bloodstream and is very abundant in plasma relative to many hormones. High adiponectin levels correlate with a lower risk of diabetes mellitus type 2. Plasma levels of adiponectin are lower in obese subjects than in lean subjects. Many studies have found adiponectin to be inversely correlated with body mass index in patient populations. However, a meta analysis was not able to confirm this association in healthy adults. Circulating adiponectin concentrations increase during caloric restriction in animals and humans, such as in patients with anorexia nervosa. Furthermore, a recent study suggests that adipose tissue within bone marrow, which increases during caloric restriction, contributes to elevated circulating adiponectin in this context.

Immunogen: Recombinant protein within human Adiponectin aa 1-244 / 244.

Positive control: Mouse white adipose tissue lysate, rat white adipose tissue lysate, human plasma lysates, human placenta tissue, human breast tissue, mouse breast tissue, rat skin tissue.

Subcellular location: Secreted.

Database links: SwissProt: Q15848 Human | Q60994 Mouse
Entrez Gene: 246253 Rat

Recommended Dilutions:

WB	1:2,000
IHC-P	1:200-1:1,000
IF-Tissue	1:50-1:200

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Fig1: Western blot analysis of Adiponectin on different lysates with Rabbit anti-Adiponectin antibody (HA751007) at 1/2,000 dilution.

Lane 1: Mouse white adipose tissue lysate

Lane 2: Rat white adipose tissue lysate

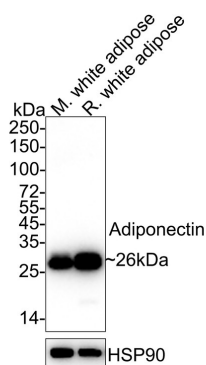
Lysates/proteins at 40 µg/Lane.

Predicted band size: 26 kDa

Observed band size: 26 kDa

Exposure time: 10 seconds; ECL: K1801;

4-20% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751007) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of Adiponectin on human plasma lysates with Rabbit anti-Adiponectin antibody (HA751007) at 1/2,000 dilution.

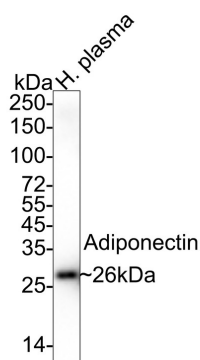
Lysates/proteins at 40 µg/Lane.

Predicted band size: 26 kDa

Observed band size: 26 kDa

Exposure time: 10 seconds; ECL: K1801;

4-20% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751007) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

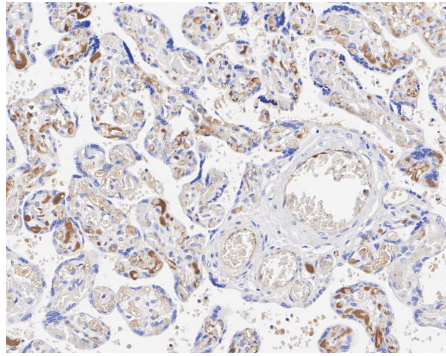


Fig3: Immunohistochemical analysis of paraffin-embedded human placenta tissue with Rabbit anti-Adiponectin antibody (HA751007) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA751007) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

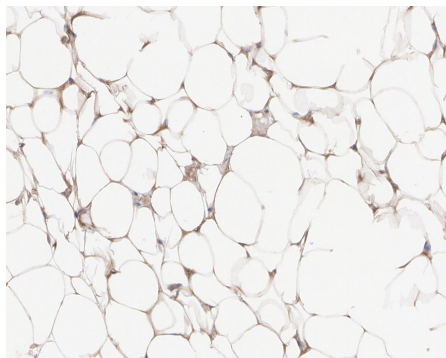


Fig4: Immunohistochemical analysis of paraffin-embedded human breast tissue with Rabbit anti-Adiponectin antibody (HA751007) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA751007) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

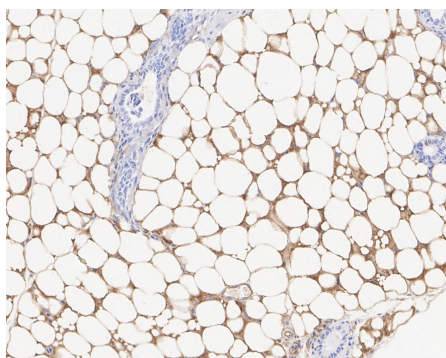


Fig5: Immunohistochemical analysis of paraffin-embedded mouse breast tissue with Rabbit anti-Adiponectin antibody (HA751007) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA751007) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

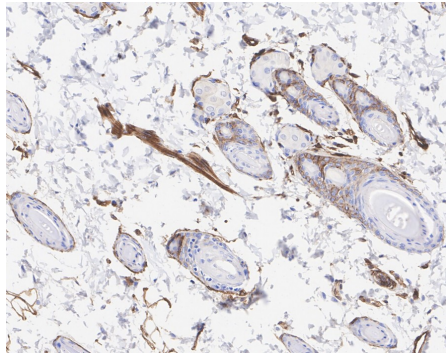


Fig6: Immunohistochemical analysis of paraffin-embedded rat skin tissue with Rabbit anti-Adiponectin antibody (HA751007) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA751007) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Zhao S et al. Adiponectin, Leptin and Cardiovascular Disorders. *Circ Res.* 2021 Jan
2. Pham DV et al. Adiponectin triggers breast cancer cell death via fatty acid metabolic reprogramming. *J Exp Clin Cancer Res.* 2022 Jan

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