

Adiponectin Polyclonal Antibody

Product Details	
Size	200 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptides corresponding to the residues E(18) D D V T T T E E L A P A L V(32) and F(187) T Y D Q Y Q E K N V D Q A(200) of mouse Adiponectin.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325789

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	2 µg/mL	1 Publication
Immunofluorescence (IF)	2 µg/mL	-
Immunoprecipitation (IP)	Assay dependent	-
Western Blot (WB)	2 µg/mL	20 Publications
Blocking Assay (BLOCK)	-	1 Publication
Immunohistochemistry (IHC)	-	3 Publications

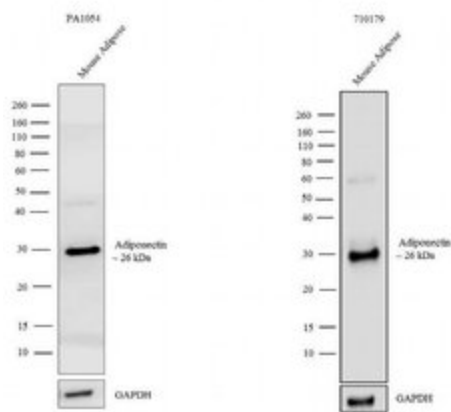
Product Specific Information

PA1-054 detects Adiponectin (30 kDa) from mouse serum.

PA1-054 has been successfully used in Western blot and immunoprecipitation procedures. By Western blot, this antibody detects an ~30 kDa protein representing Adiponectin from mouse serum.

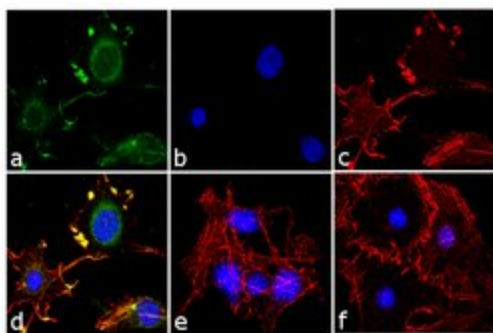
The PA1-054 immunogen is a pair of synthetic peptides corresponding to the residues E(18) D D V T T T E E L A P A L V(32) and F(187) T Y D Q Y Q E K N V D Q A(200) of mouse Adiponectin.

Advanced Verification Data



Adiponectin Antibody (PA1-054)

Antibody specificity was demonstrated by showing that antibodies raised against the same target protein perform similarly. Western blot of Adiponectin using Anti-Adiponectin Polyclonal Antibody (Product # PA1-054), tested in parallel with Adiponectin Recombinant Rabbit Polyclonal Antibody (Product # 710179), shows similar expression of Adiponectin in the samples tested. Independent antibody validation info.



Adiponectin Antibody (PA1-054)

Modulation of expression of target protein by cell treatment to demonstrate antibody specificity. Immunofluorescence analysis of Adiponectin using anti-Adiponectin Polyclonal antibody (Product # PA1-054) shows increased expression of Leptin in differentiated 3T3-L1 cells. Cell treatment validation info.

Product Images For Adiponectin Polyclonal Antibody

Adiponectin Antibody (PA1-054) in IF

Immunofluorescence analysis of Adiponectin was performed using 70% confluent 3T3-L1 cells differentiated with StemPro Adipogenesis Supplement (Product # A10070-01) for 5 days. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Adiponectin Rabbit Polyclonal Antibody (Product # PA1-054) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conj µgate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e is undifferentiated cells with no signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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25 References

Western Blot (20)

Journal of extracellular vesicles

Characterisation of adipocyte-derived extracellular vesicle subtypes identifies distinct protein and lipid signatures for large and small extracellular vesicles.

"PA1054 was used in western blot to describe extracellular vesicle subpopulations secreted by fat cells"

Authors: Durcin M, Fleury A, Taillebois E, Hilairet G, Krupova Z, Henry C, Truchet S, Trötz Müller M, Köfeler H, Mabillet G, Hue O, Andriantsitohaina R, Martin P, Le Lay S

Species
Mouse

Dilution
Not Cited

Year
2019

PloS one

Aortic carboxypeptidase-like protein enhances adipose tissue stromal progenitor differentiation into myofibroblasts and is upregulated in fibrotic white adipose tissue.

"PA1-054 was used in Western Blotting to investigate the role of aortic carboxypeptidase-like protein on adipose progenitor differentiation in the context of adipose tissue fibrosis."

Authors: Jager M, Lee MJ, Li C, Farmer SR, Fried SK, Layne MD

Species
Mouse

Dilution
1:2000

Year
2018

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Blocking Assay (1)

The Journal of endocrinology

Adipocytes play an etiological role in the podocytopathy of high-fat diet-fed rats.

"PA1054 was used in blocking or activating experiment to elucidate the relationship between obesity and chronic kidney disease"

Authors: Chen JY, Jian DY, Lien CC, Lin YT, Ting CH, Chen LK, Hsu TC, Huang HM, Wu YT, Kuan TT, Chao YW, Wu LY, Huang SW, Juan CC

Species
Mouse

Dilution
Not Cited

Year
2016

Immunohistochemistry (3)

The Journal of biological chemistry

T-cadherin is essential for adiponectin-mediated revascularization.

"PA1-054 was used in immunohistochemistry to study the role of T-cadherin in the mechanism by which adiponectin promotes revascularization"

Authors: Parker-Duffen JL, Nakamura K, Silver M, Kikuchi R, Tigges U, Yoshida S, Denzel MS, Ranscht B, Walsh K

Species
Mouse

Dilution
Not Cited

Year
2013

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ICC (1)

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