

Adiponectin Monoclonal Antibody (19F1)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rabbit
Published Species	Rabbit, Mouse, Human
Host/Isotype	Mouse / IgG
Class	Monoclonal
Type	Antibody
Clone	19F1
Conjugate	Unconjugated
Immunogen	Full length, recombinant, human adiponectin.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_557516

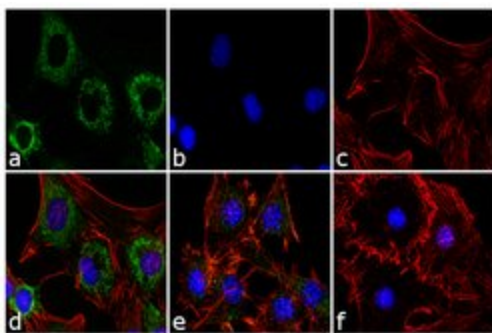
Applications	Tested Dilution	Publications
ELISA (ELISA)	Assay dependent	-
Immunocytochemistry (ICC)	2 µg/mL	-
Immunofluorescence (IF)	2-4 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	Assay Dependent	-
Western Blot (WB)	2 µg/mL	8 Publications
Immunohistochemistry (IHC)	-	2 Publications
Miscellaneous PubMed (Misc)	-	2 Publications

Product Specific Information

MA1-054 detects adiponectin from human, rabbit and mouse samples.

MA1-054 has been used successfully in Western blot, immunofluorescence, and ELISA procedures. By Western blot this antibody detects ~30 kDa protein representing Adiponectin in 3T3-L1 adipocytes. Immunofluorescence and ELISA of Adiponectin can also be performed using MA1-054.

The MA1-054 immunogen is full length, recombinant, human adiponectin.



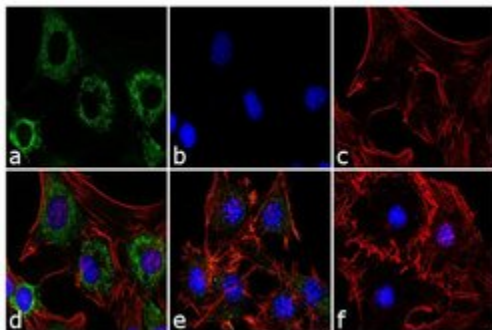
Adiponectin Antibody (MA1-054)

Modulation of expression of target protein by cell treatment to demonstrate antibody specificity. Immunofluorescence analysis of adiponectin using anti-adiponectin mouse monoclonal antibody (Catalog # MA1-054) shows increased expression of adiponectin upon differentiating 3T3-L1 cells with StemPro Adipogenesis Supplement. Cell treatment validation info.

Product Images For Adiponectin Monoclonal Antibody (19F1)

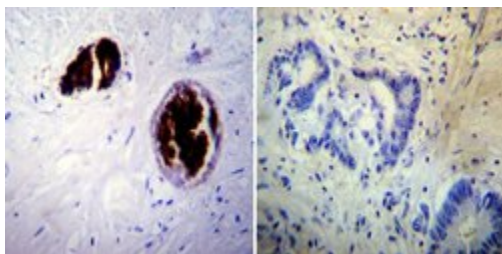
Adiponectin Antibody (MA1-054) in IF

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 (19F1) Mouse Monoclonal Antibody (Product # MA1-054) at 2µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) 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 untreated cell with less signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



Adiponectin Antibody (MA1-054) in IHC

Immunohistochemistry was performed on cancer biopsies of deparaffinized Human colon carcinoma tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:100 with a mouse monoclonal antibody recognizing Adiponectin (Product # MA1-054) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



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Western Blot (8)

Evidence-based complementary and alternative medicine : eCAM

St. John's Wort Has Metabolically Favorable Effects on Adipocytes In Vivo.

"MA1-054 was used in western blot to study the effects of St John's Wart on adipocyte function in vivo"

Authors: Fuller S,Richard AJ,Ribnicky DM,Beyl R,Mynatt R,Stephens JM

Species
Mouse

Dilution
Not Cited

Year
2014

Antiviral therapy

HIV protease inhibitors activate the adipocyte renin angiotensin system.

"MA1-054 was used in western blot to investigate the effect of HIV protease inhibitors on the activation of adipose renin angiotensin system"

Authors: Boccara F,Auclair M,Cohen A,Lefèvre C,Prot M,Bastard JP,Capeau J,Caron-Debarle M

Species
Human

Dilution
Not Cited

Year
2010

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Immunohistochemistry (2)

The Journal of neuroscience : the official journal of the Society for Neuroscience

LTP induction translocates cortactin at distant synapses in wild-type but not Fmr1 knock-out mice.

"MA1-054 was used in immunohistochemistry to study the effect of LTP induction on cortactin translocation in wild-type and fmr1 knock-out mice"

Authors: Seese RR,Babayan AH,Katz AM,Cox CD,Lauterborn JC,Lynch G,Gall CM

Species
Mouse

Dilution
1:1000

Year
2012

Lupus

Prospective validation of a novel renal activity index of lupus nephritis.

"MA1-054 was used in Immunohistochemistry-immunofluorescence to validate the renal activity index for lupus in adults with lupus nephritis."

Authors: Gulati G,Bennett MR,Abulaban K,Song H,Zhang X,Ma Q,Brodsky SV,Nadasdy T,Haffner C,Wiley K,Ardoin SP,Devarajan P,Ying J,Rovin BH,Brunner HI

Species
Human

Dilution
1:50

Year
2017

More applications with references on thermofisher.com

- IF (1)
- Misc (2)

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