

Product Name: KD-Validated Adiponectin Receptor 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01424

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 42.6kDa

Antigen Information

Gene Name	ADIPOR1 ADIPOR1; Adiponectin Receptor 1; PAQR1; ACDCR1; Progestin And AdipoQ Receptor Family
Alternative Names	Member 1; Progestin And AdipoQ Receptor Family Member I; Adiponectin Receptor Protein 1; TESBP1A; CGI-45; CGI45
Gene ID	51094.0
SwissProt ID	Q96A54
Immunogen	A synthesized peptide derived from human ADIPOR1

Background

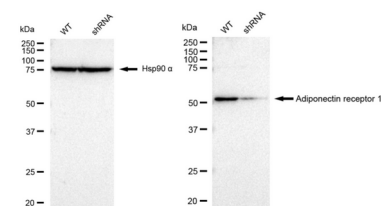
This gene encodes a protein which acts as a receptor for adiponectin, a hormone secreted by adipocytes which regulates fatty

acid catabolism and glucose levels. Binding of adiponectin to the encoded protein results in activation of an AMP-activated kinase signaling pathway which affects levels of fatty acid oxidation and insulin sensitivity. A pseudogene of this gene is located on chromosome 14. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2014]

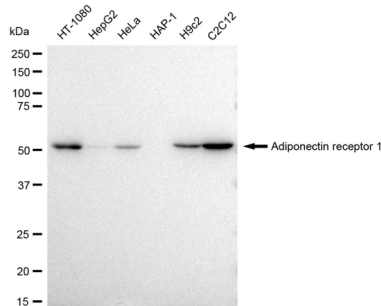
Research Area

Cardiovascular,Signal Transduction

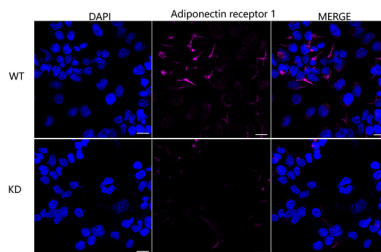
Image Data



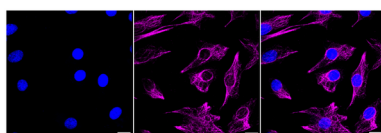
Western blotting analysis using adiponectin receptor 1 antibody (KVA01424). Adiponectin receptor 1 expression in wild type (WT) and adiponectin receptor 1 (ADIPOR1) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with adiponectin receptor 1 antibody (KVA01424, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



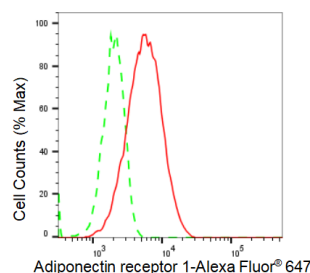
Western blotting analysis using Adiponectin receptor 1 antibody (KVA01424). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Adiponectin receptor 1 antibody (KVA01424, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Adiponectin receptor 1 antibody (KVA01424, 1:1,000), Top panel: wild-type (WT); Bottom panel: Adiponectin receptor 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Adiponectin receptor 1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of C2C12 cells with Adiponectin receptor 1 antibody (KVA01424, 1:1,000). Nuclei were stained blue with DAPI; Adiponectin receptor 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Flow cytometric analysis of Adiponectin receptor 1 expression in C2C12 cells using Adiponectin receptor 1 antibody (KVA01424, 1:2,000). Green, isotype control; red, Adiponectin receptor 1.

