

**KD-Validated Anti-Adiponectin receptor 1 Rabbit Monoclonal Antibody**  
Rabbit monoclonal antibody  
Catalog # AGI1312**Specification****KD-Validated Anti-Adiponectin receptor 1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">Q96A54</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 43 kDa, observed, 52 kDa kDa
Gene Name	ADIPOR1
Aliases	ADIPOR1; Adiponectin Receptor 1; PAQR1; ACDCR1; Progesterin And AdipoQ Receptor Family Member 1; Progesterin And AdipoQ Receptor Family Member I; Adiponectin Receptor Protein 1; TESBP1A; CGI-45; CGI45
Immunogen	A synthesized peptide derived from human ADIPOR1

**KD-Validated Anti-Adiponectin receptor 1 Rabbit Monoclonal Antibody - Additional Information**Gene ID **51094****Other Names**

Adiponectin receptor protein 1, Progesterin and adipoQ receptor family member 1, Progesterin and adipoQ receptor family member I, ADIPOR1 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=24040](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=24040) target="\_blank">HGNC:24040</a>)

**KD-Validated Anti-Adiponectin receptor 1 Rabbit Monoclonal Antibody - Protein Information**Name ADIPOR1 ([HGNC:24040](#))**Function**

Receptor for ADIPOQ, an essential hormone secreted by adipocytes that regulates glucose and lipid metabolism (PubMed: <http://www.uniprot.org/citations/12802337> target="\_blank">12802337</a>, PubMed: <http://www.uniprot.org/citations/25855295> target="\_blank">25855295</a>). Required for normal glucose and fat homeostasis and for maintaining a normal body weight. ADIPOQ-binding activates a signaling cascade that leads to increased AMPK activity, and ultimately to increased fatty acid oxidation, increased glucose uptake and decreased gluconeogenesis. Has high affinity for globular adiponectin and low affinity for full-length adiponectin (By similarity).

### Cellular Location

Cell membrane; Multi-pass membrane protein Note=Localized to the cell membrane and intracellular organelles

### Tissue Location

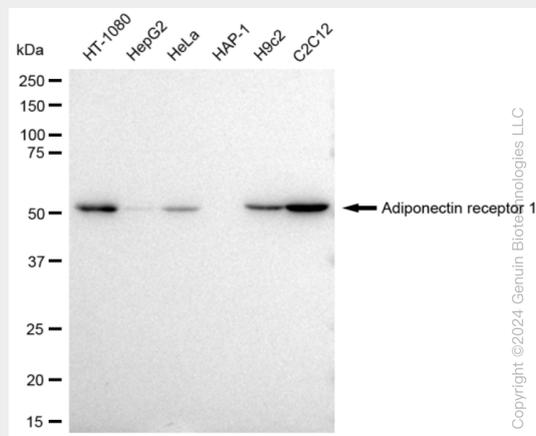
Widely expressed (PubMed:16044242). Highly expressed in heart and skeletal muscle (PubMed:12802337). Expressed at intermediate level in brain, spleen, kidney, liver, placenta, lung and peripheral blood leukocytes (PubMed:12802337). Weakly expressed in colon, thymus and small intestine (PubMed:12802337)

## KD-Validated Anti-Adiponectin receptor 1 Rabbit Monoclonal Antibody - Protocols

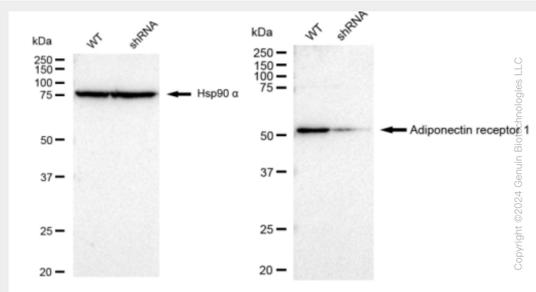
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

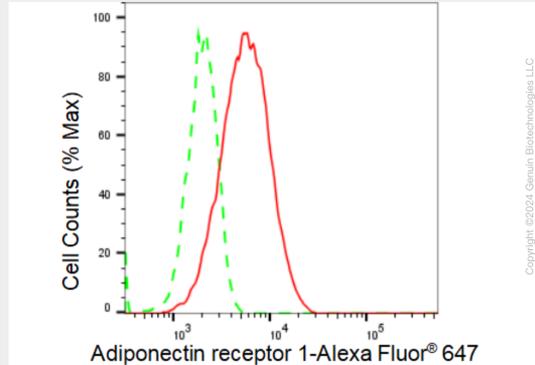
## KD-Validated Anti-Adiponectin receptor 1 Rabbit Monoclonal Antibody - Images



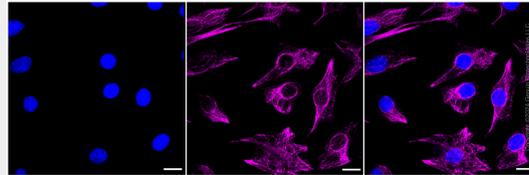
Western blotting analysis using anti-Adiponectin receptor 1 antibody (Cat#AGI1312). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Adiponectin receptor 1 antibody (Cat#AGI1312, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Adiponectin receptor 1 antibody (Cat#AGI1312). Adiponectin receptor 1 expression in wild type (WT) and Adiponectin receptor 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Adiponectin receptor 1 antibody (Cat#AGI1312, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Adiponectin receptor 1 expression in C2C12 cells using Adiponectin receptor 1 antibody (Cat#AGI1312, 1:2000). Green, isotype control; red, Adiponectin receptor 1.



Immunocytochemical staining of C2C12 cells with Adiponectin receptor 1 antibody (Cat#AGI1312, 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.