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ADIPOR1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP8634b

Specification

ADIPOR1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q96A54

ADIPOR1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 51094

Other Names
Adiponectin receptor protein 1, Progestin and adipoQ receptor family member I, ADIPOR1, PAQR1, TESBP1A

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8634b was selected from the C-term region of human ADIPOR1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ADIPOR1 Antibody (C-term) Blocking Peptide - Protein Information

Name ADIPOR1 (HGNC:24040)

Function

ADIPOR1 Antibody (C-term) Blocking Peptide - Background

The adiponectin receptors, ADIPOR1 and ADIPOR2, serve as receptors for globular and full-length adiponectin and mediate increased AMPK and PPAR-alpha ligand activities, as well as fatty acid oxidation and glucose uptake by adiponectin.

ADIPOR1 Antibody (C-term) Blocking Peptide - References

Civitarese,A.E., et.al., Diabetologia 47 (5), 816-820 (2004) Wang,H., et.al., Diabetes 53 (8), 2132-2136 (2004)

Receptor for ADIPOQ, an essential hormone secreted by adipocytes that regulates glucose and lipid metabolism (PubMed:25855295, PubMed:12802337). 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)

ADIPOR1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides