

Goat Anti-GPR119 Antibody

Peptide-affinity purified goat antibody Catalog # AF1491a

Specification

Goat Anti-GPR119 Antibody - Product Information

Application WB
Primary Accession O8TDV5

Other Accession <u>NP_848566</u>, <u>139760</u>

Reactivity
Predicted
Host
Clonality
Concentration

Human
Mouse, Pig
Goat
Polyclonal
100ug/200ul

Isotype IgG
Calculated MW 36889

Goat Anti-GPR119 Antibody - Additional Information

Gene ID 139760

Other Names

Glucose-dependent insulinotropic receptor, G-protein coupled receptor 119, GPR119

Format

0.5 mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-GPR119 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-GPR119 Antibody - Protein Information

Name GPR119

Function

Receptor for the endogenous fatty-acid ethanolamide oleoylethanolamide (OEA) and lysophosphatidylcholine (LPC). Functions as a glucose-dependent insulinotropic receptor. The activity of this receptor is mediated by G proteins which activate adenylate cyclase. Seems to act through a G(s) mediated pathway.

Cellular Location



Cell membrane; Multi-pass membrane protein.

Tissue Location

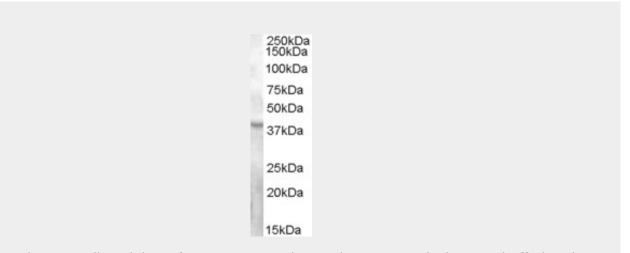
Predominantly expressed in the pancreas, especially in the islets.

Goat Anti-GPR119 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-GPR119 Antibody - Images



AF1491a (0.3 μ g/ml) staining of Human Ovary lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-GPR119 Antibody - Background

This gene encodes a member of the rhodopsin subfamily of G-protein-coupled receptors that is expressed in the pancreas and gastrointestinal tract. The encoded protein is activated by lipid amides including lysophosphatidylcholine and oleoylethanolamide and may be involved in glucose homeostasis. This protein is a potential drug target in the treatment of type 2 diabetes.

Goat Anti-GPR119 Antibody - References

A conserved aromatic lock for the tryptophan rotameric switch in TM-VI of seven-transmembrane receptors. Holst B, et al. J Biol Chem, 2010 Feb 5. PMID 19920139.

N-oleoyldopamine enhances glucose homeostasis through the activation of GPR119. Chu ZL, et al. Mol Endocrinol, 2010 Jan. PMID 19901198.

Lipid receptors and islet function: therapeutic implications? Kebede MA, et al. Diabetes Obes Metab, 2009 Nov. PMID 19817784.

GPR119 agonists for the treatment of type 2 diabetes. Jones RM, et al. Expert Opin Ther Pat, 2009 Oct. PMID 19780700.

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Morgan NG, et al. Biochem Pharmacol, 2009 Dec 15. PMID 19660440.