

Goat Anti-GPR81 / FKSG80 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1496a**Specification**

Goat Anti-GPR81 / FKSG80 Antibody - Product Information

Application	WB, E
Primary Accession	O9BXC0
Other Accession	NP_115943 , 27198
Reactivity	Human
Predicted	Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	39295

Goat Anti-GPR81 / FKSG80 Antibody - Additional Information**Gene ID** 27198**Other Names**

Hydroxycarboxylic acid receptor 1, G-protein coupled receptor 104, G-protein coupled receptor 81, HCAR1, GPR104, GPR81, HCA1

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg IgG/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-GPR81 / FKSG80 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-GPR81 / FKSG80 Antibody - Protein Information**Name** HCAR1**Synonyms** GPR104, GPR81, HCA1

Function

Acts as a receptor for L-lactate and mediates its anti-lipolytic effect through a G(i)-protein-mediated pathway.

Cellular Location

Cell membrane; Multi-pass membrane protein.

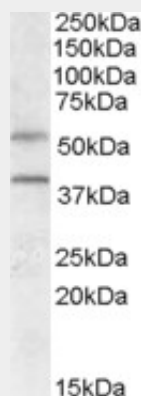
Tissue Location

Expressed abundantly in brown and white fat. It also detectable at lower levels in liver, kidney, skeletal muscle, brain and pituitary. Not detected in frontal, temporal and occipital lobes of the cortex, basal forebrain, caudate nucleus, nucleus accumbens and hippocampus.

Goat Anti-GPR81 / FKSG80 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](#)

Goat Anti-GPR81 / FKSG80 Antibody - Images

AF1496a (0.5g/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-GPR81 / FKSG80 Antibody - Background

G protein-coupled receptors (GPCRs, or GPRs), such as GPR81, contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins.

Goat Anti-GPR81 / FKSG80 Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

Peroxisome proliferator-activated receptor gamma regulates expression of the anti-lipolytic G-protein-coupled receptor 81 (GPR81/Gpr81). Jeninga EH, et al. J Biol Chem, 2009 Sep 25. PMID 19633298.

Lactate inhibits lipolysis in fat cells through activation of an orphan G-protein-coupled receptor, GPR81. Liu C, et al. J Biol Chem, 2009 Jan 30. PMID 19047060.

Role of GPR81 in lactate-mediated reduction of adipose lipolysis. Cai TQ, et al. Biochem Biophys Res Commun, 2008 Dec 19. PMID 18952058.