

Rabbit GPR120 Polyclonal Antibody | anti-GPR120 antibody

GPR120 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321884	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

GPR120; Polyclonal Antibody; GPR120 Antibody; G protein coupled receptor 120; G protein coupled receptor 129; G protein coupled receptor GT01; G protein coupled receptor PGR 4; G protein coupled receptor PGR4; G-protein coupled receptor 120; G-protein coupled receptor 129; G-protein coupled receptor GT01; G-protein coupled receptor PGR4; GPR 120; GPR 129; GPR129; GT01; HGNC:19345; MGC119984; O3FA1_HUMAN; O3FAR1; Omega-3 fatty acid receptor 1; PGR 4; PGR4; anti-GPR120 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GPR120 antibody detects endogenous levels of total GPR120
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	361
Applicable Applications for anti-GPR120 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GPR120
Subcellular Location	Cell Membrane. Colocalized with ARRB2 following DHA treatment.
Tissue Specificity	Abundant expression in the intestinal tract. Highly expressed in adipose tissue, small intestine and pancreas.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Bovine (90%), Horse (90%), Sheep (90%), Rabbit (90%), Dog (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of GPR120 expression in PC12 cells, The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA321884 staining LOVO cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-GPR120 antibody	Description: GPR120, a member of the rhodopsin family of G protein-coupled receptors (GPCRs), is a 377 amino acid protein which is expressed in the intestine. GPR120 is a receptor for unsaturated long-chain FFAs (free fatty acids). Function: Receptor for medium and long-chain free fatty acids (FFAs). Signals via a G(q)/G(11)-coupled pathway. Acts as a receptor for omega-3 fatty acids and mediates robust anti-inflammatory effects, particularly in macrophages and fat cells. The anti-inflammatory effects involve inhibition of TAK1 through a beta-arrestin 2 (ARRB2)/TAB1-dependent effect, but independent of the G(q)/G(11)-coupled pathway. Mediates potent insulin sensitizing and antidiabetic effects by repressing macrophage-induced tissue inflammation. May mediate the taste of fatty acids. Mediates FFA-induced inhibition of apoptosis in enteroendocrine cells. May play a role in the regulation of adipocyte development and differentiation. Subunit Structure: Interacts with ARRB2 following docosahexaenoic acid (DHA) stimulation. Post-translational Modifications: Phosphorylated. FFA stimulation facilitates phosphorylation. Similarity: Belongs to the G-protein coupled receptor 1 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	307691233
NCBI GeneID	338557
NCBI Accession #	NP_001182684.1
NCBI GenBank Nucleotide #	NM_001195755.1
UniProt Accession #	Q5NUL3; Q495H1; Q5VY25; Q5VY26; Q7Z605; Q86SM7
Molecular Weight	Observed: 42 kDa Predicted: 43 kDa
NCBI Official Full Name	free fatty acid receptor 4 isoform GPR120-S
NCBI Official Synonym Full Names	free fatty acid receptor 4
NCBI Official Symbol	FFAR4
NCBI Official Synonym Symbols	GT01; PGR4; BMIQ10; GPR120; GPR129; O3FAR1
NCBI Protein Information	free fatty acid receptor 4
UniProt Protein Name	Free fatty acid receptor 4
UniProt Gene Name	FFAR4
UniProt Synonym Gene Names	GPR120; GPR129; O3FAR1; PGR4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.