Datasheet for ABIN1387736

anti-O3FAR1 antibody (AA 21-120)

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1 Publication

Overview

Quantity:	100 µL
Target:	O3FAR1
Binding Specificity:	AA 21-120
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This O3FAR1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human G protein coupled receptor 120
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Dog,Cow,Pig,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	O3FAR1

Target Details

Alternative Name:	GPR120 (O3FAR1 Products)
Background:	Synonyms: G protein coupled receptor 120, GPCR GPR120, 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, GPR120, GPR129, GT01, HGNC:19345, MGC119984, O3FA1_HUMAN, O3FAR1, Omega-3 fatty acid receptor 1, PGR 4, PGR4, GPCR120. Background: 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). FFAs act as signaling molecules and are an important energy source. They also employ various physiological responses through their GPCRs. One such response occurs when dietary FFAs stimulate GPR120. This stimulation promotes the secretion of glucagon-like peptide 1 (GLP-1) in vivo and in vitro. GLP-1 belongs to the class of molecules known as the incretins, which are associated with insulin secreted from the pancreas as a result of food intake. GLP-1 also inhibits glucagon and gastric acid secretion and gastric emptying. Consequently, the role of GPR120 in the secretion of GLP-1 is critical in the treatment of diabetes.
Gene ID:	338557
UniProt:	Q5NUL3
Pathways:	Hormone Transport

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500

Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	Meng, Yuan, Zhang, Zhang, Fu, Zhu, Shu, Wang, Gao, Xi, Sun, Zhang, Jiang, Wang: "Stearic acid suppresses mammary gland development by inhibiting PI3K/Akt signaling pathway through GPR120 in pubertal mice." in: **Biochemical and biophysical research communications**, Vol. 491 , Issue 1, pp. 192-197, (2017) (PubMed).