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# Datasheet for ABIN7153163 anti-FFAR2 antibody (AA 277-330)

2 Images



### Overview

Quantity:	100 µg
Target:	FFAR2
Binding Specificity:	AA 277-330
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FFAR2 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

# Product Details

Immunogen:	Recombinant Human Free fatty acid receptor 2 protein (277-330AA)
Isotype:	lgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

# Target Details

Target:	FFAR2
Alternative Name:	FFAR2 (FFAR2 Products)
Background:	Background: G protein-coupled receptor that is activated by a major product of dietary fiber
	digestion, the short chain fatty acids (SCFAs), and that plays a role in the regulation of whole-

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN7153163 | 09/09/2023 | Copyright antibodies-online. All rights reserved. body energy homeostasis and in intestinal immunity. In omnivorous mammals, the short chain fatty acids acetate, propionate and butyrate are produced primarily by the gut microbiome that metabolizes dietary fibers. SCFAs serve as a source of energy but also act as signaling molecules. That G protein-coupled receptor is probably coupled to the pertussis toxin-sensitive, G(i/o)-alpha family of G proteins but also to the Gq family (PubMed:12496283, PubMed:12711604, PubMed:23589301). Its activation results in the formation of inositol 1,4,5trisphosphate, the mobilization of intracellular calcium, the phosphorylation of the MAPK3/ERK1 and MAPK1/ERK2 kinases and the inhibition of intracellular cAMP accumulation. May play a role in glucose homeostasis by regulating the secretion of GLP-1, in response to short-chain fatty acids accumulating in the intestine. May also regulate the production of LEP/Leptin, a hormone acting on the central nervous system to inhibit food intake. Finally, may also regulate whole-body energy homeostasis through adipogenesis regulating both differentiation and lipid storage of adipocytes. In parallel to its role in energy homeostasis, may also mediate the activation of the inflammatory and immune responses by SCFA in the intestine, regulating the rapid production of chemokines and cytokines. May also play a role in the resolution of the inflammatory response and control chemotaxis in neutrophils. In addition to SCFAs, may also be activated by the extracellular lectin FCN1 in a process leading to activation of monocytes and inducing the secretion of interleukin-8/IL-8 in response to the presence of microbes (PubMed:21037097). Among SCFAs, the fatty acids containing less than 6 carbons, the most potent activators are probably acetate, propionate and butyrate (PubMed:12496283, PubMed:12711604). Exhibits a SCFA-independent constitutive G proteincoupled receptor activity (PubMed:23066016). Aliases: Fatty acid receptor 2 antibody, FFA2R antibody, Ffar2 antibody, FFAR2\_HUMAN

antibody, FFAR2\_HOMAN antibody, free fatty acid activated receptor 2 antibody, FFAR2\_HOMAN protein coupled receptor 43 antibody, G protein-coupled receptor 43 antibody, G-protein coupled receptor 43 antibody, GPR 43 antibody, GPR43 antibody

UniProt:

015552

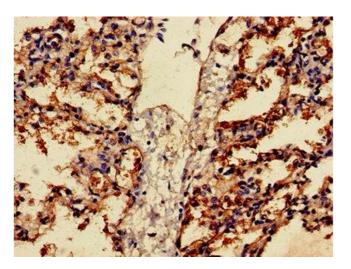
# Application DetailsApplication Notes:Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,Restrictions:For Research Use onlyHandlingImage: Image: Immage: Image: Imag

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# Handling

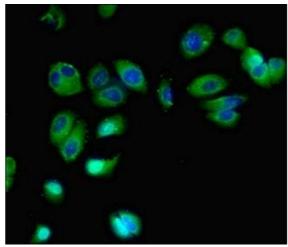
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

### Images



#### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded human lung tissue using ABIN7153163 at dilution of 1:100



### Immunofluorescence

**Image 2.** Immunofluorescent analysis of MCF-7 cells using ABIN7153163 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

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