

For Research Use Only

# FFAR3 Monoclonal antibody

Catalog Number: 66811-1-Ig **11 Publications**



## Basic Information

<b>Catalog Number:</b> 66811-1-Ig	<b>GenBank Accession Number:</b> BC035657	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1400 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2865	<b>CloneNo.:</b> 1D10B7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O14843	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IHC 1:200-1:800 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> free fatty acid receptor 3	
<b>Immunogen Catalog Number:</b> AG28025	<b>Calculated MW:</b> 39 kDa	
	<b>Observed MW:</b> 40-48 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : HepG2 cells, human adipose tissue, HT-29 cells IHC : human liver cancer tissue, IF/ICC : A549 cells,
<b>Cited Applications:</b> WB, IF	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human, mouse, rat, pig	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

FFAR3 (Free fatty acid receptors 3) also known as GPR41, with another GPR43 protein, both are Gai-coupled receptor activated by short-chain fatty acids (SCFAs) such as acetate, propionate, and butyrate (PMID:26870043). GPR41 protein is translated from the bicistronic mRNA encoding GPR40 and GPR41, where an internal ribosome entry site (IRES) is utilized for the GPR41 coding sequence downstream of GPR40 (PMID:22493486). GPR41 is expressed in adipose tissue, gut, and the peripheral nervous system, and it is involved in SCFA-dependent energy regulation (PMID: 24904531).

## Notable Publications

Author	Pubmed ID	Journal	Application
Pawet Piatek	35935952	Front Immunol	IF
Changheng Song	39741920	Drug Des Devel Ther	WB
YanJun Jiang	39706182	Cell Host Microbe	

## Storage

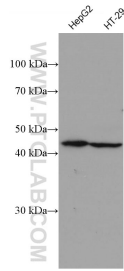
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

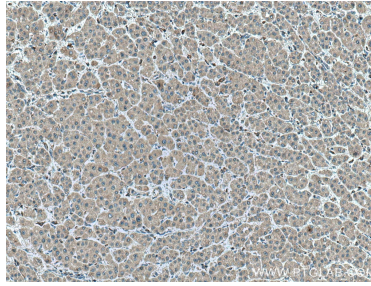
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

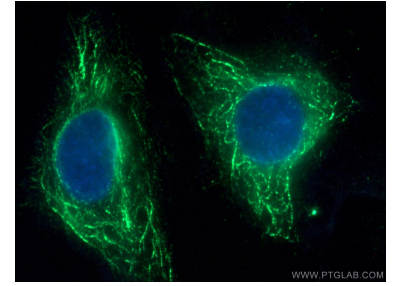
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66811-1-Ig (FFAR3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66811-1-Ig (FFAR3 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using 66811-1-Ig (FFAR3 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).