

For Research Use Only

# FFAR3 Monoclonal antibody

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



## Basic Information

Catalog Number: 66811-1-Ig	GenBank Accession Number: BC035657	Purification Method: Protein G purification
Concentration: 1000 ug/ml	GeneID (NCBI): 2865	CloneNo.: 1D10B7
Source: Mouse	UNIPROT ID: O14843	Recommended Dilutions: WB 1:500-1:3000 IHC 1:200-1:800 IF/ICC 1:50-1:500
Isotype: IgG1	Full Name: free fatty acid receptor 3	
Immunogen Catalog Number: AG28025	Calculated MW: 39 kDa Observed MW: 40-48 kDa	

## Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : HepG2 cells, human adipose tissue, HT-29 cells IHC : human liver cancer tissue, IF/ICC : A549 cells,
Cited Applications: WB, IF	
Species Specificity: human	
Cited Species: 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
Pawel Piatek	35935952	Front Immunol	IF
Changheng Song	39741920	Drug Des Devel Ther	WB
Yanjun Jiang	39706182	Cell Host Microbe	

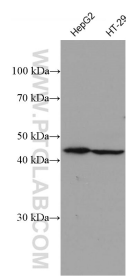
## Storage

Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

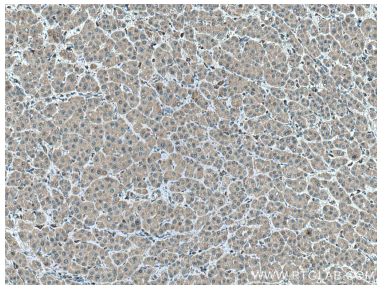
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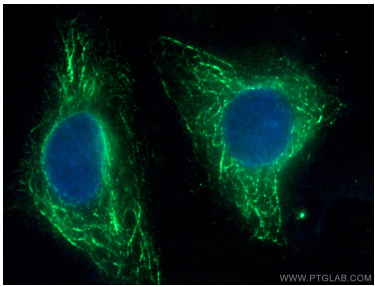
## Selected Validation Data



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).