For Research Use Only

FFAR3 Monoclonal antibody

Catalog Number: 66811-1-lg 11 Publications



Basic Information

Catalog Number: GenBank Accession Number:

66811-1-Ig BC035657

Size: GeneID (NCBI):
150ul , Concentration: 1400 ug/ml by 2865

Nanodrop and 1000 ug/ml by Bradford_{UNIPROT ID}: method using BSA as the standard; O14843

Source: Full Name:
Mouse free fatty acid receptor 3

Isotype: Calculated MW:
IgG1 39 kDa
Immunogen Catalog Number: Observed MW:
AG28025 40-48 kDa

Purification Method:

Protein G purification CloneNo.:

1D10B7
Recommended Dilutions:

WB 1:500-1:3000 IHC 1:200-1:800 IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IF

Species Specificity:

Human
Cited Species:

human, mouse, rat, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HepG2 cells, human adipose tissue, HT-29 cells

IHC: human liver cancer tissue,

IF/ICC: A549 cells,

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
Paweł 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

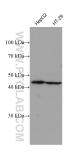
*** 20ul sizes contain 0.1% BSA

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 66811-1-1g (FFAR3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66811-1-1g (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 66811-1-1g (FFAR3 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).