

For Research Use Only

SYNJ2BP Polyclonal antibody

Catalog Number: 15666-1-AP

Featured Product

12 Publications



Basic Information

Catalog Number:

15666-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 400 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8130

GenBank Accession Number:

BC007704

GeneID (NCBI):

55333

UNIPROT ID:

P57105

Full Name:

synaptojanin 2 binding protein

Calculated MW:

145 aa, 16 kDa

Observed MW:

16 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:200-1:800

IF/ICC: 1:200-1:800

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

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: mouse kidney tissue, A549 cells, rat kidney tissue, mouse lung tissue

IP: mouse lung tissue,

IHC: mouse liver tissue,

IF/ICC: HepG2 cells, MCF-7 cells

FC (Intra): HepG2 cells,

Background Information

Activin, a member of the TGF-beta superfamily, plays important roles in reproductive tissues as a stimulator of follicle-stimulating hormone (FSH) secretion and inhibits the proliferation of breast cancer cells. Activin receptor-interacting protein 2 (ARIP2), also known as synaptojanin-2-binding protein (SYNJ2BP), is located in the outer membrane of mitochondria. SYNJ2BP is widely distributed in various human tissues, and has been recently identified in mouse tissues as a regulatory protein of activin signal transduction by interacting with activin type II receptors. SYNJ2BP may be a putative growth-promoting factor involved in breast tumorigenesis and tumor development. A double band of size 15.9 kDa can be detected in Western blot (PMID: 23284606).

Notable Publications

Author	Pubmed ID	Journal	Application
Miao Wang	29163781	Oncotarget	WB,IP,IHC
Alina Guna	36264797	Science	WB
Michael J McKenna	36283413	Mol Cell	WB

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

*** 20ul sizes contain 0.1% BSA

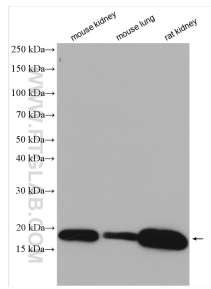
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

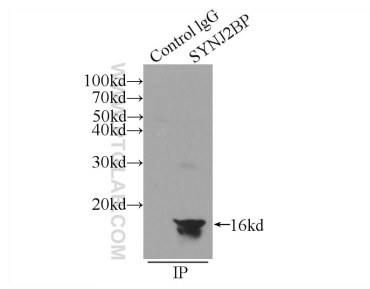
E: proteintech@ptglab.com
W: ptglab.com

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

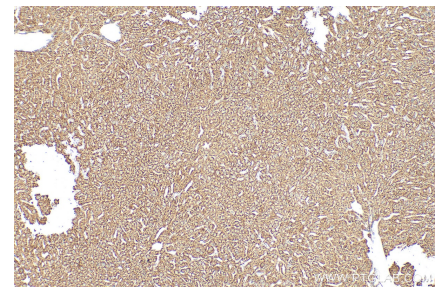
Selected Validation Data



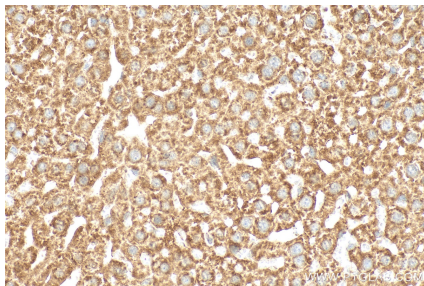
Various lysates were subjected to SDS PAGE followed by western blot with 15666-1-AP (SYNJ2BP antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



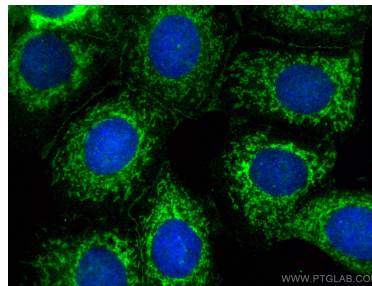
IP result of anti-SYNJ2BP (IP:15666-1-AP, 3ug; Detection:15666-1-AP 1:500) with mouse lung tissue lysate 4000ug.



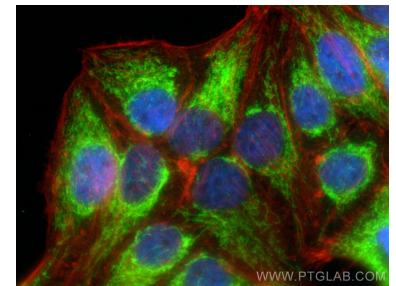
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 15666-1-AP (SYNJ2BP antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



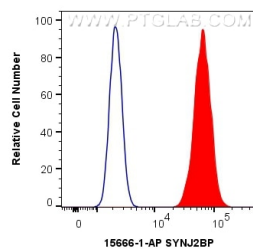
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 15666-1-AP (SYNJ2BP antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using SYNJ2BP antibody (15666-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SYNJ2BP antibody (15666-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human SYNJ2BP (15666-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).