

For Research Use Only

G3BP1 Monoclonal antibody

Catalog Number: 66486-1-Ig **20 Publications**



Basic Information

Catalog Number: 66486-1-Ig	GenBank Accession Number: BC006997	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10146	CloneNo.: 1E4A2
Source: Mouse	Full Name: GTPase activating protein (SH3 domain) binding protein 1	Recommended Dilutions: WB 1:5000-1:20000 IHC 1:50-1:500 IF 1:50-1:500
Isotype: IgG1	Calculated MW: 466 aa, 52 kDa	
Immunogen Catalog Number: AG3728	Observed MW: 68 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

CoIP, FC, IF, IP, WB

Species Specificity:

Human, mouse, rat, pig

Cited Species:

human, mouse, rat

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 : HeLa cells, mouse brain tissue, pig brain tissue, RAW 264.7 cells, NIH/3T3 cells, PC-12 cells, HSC-T6 cells, K-562 cells, Jurkat cells, HepG2 cells, HEK-293 cells

IHC : human testis tissue, human colon tissue, human lymphoma tissue, rat brain tissue

IF : sodium arsenite treated HeLa cells,

Background Information

GAP SH3 Binding Protein 1 (G3BP1), also named as G3BP, is an effector of stress granule (SG) assembly. SG biology plays an important role in the pathophysiology of TDP-43 in ALS and FTLD-U. G3BP1 can be used as a marker of SG. It has been shown to function downstream of Ras and play a role in RNA metabolism, signal transduction, and proliferation. G3BP1 is a ubiquitously expressed protein that localizes to the cytoplasm in proliferating cells and to the nucleus in non-proliferating cells. G3BP1 has recently been implicated in cancer biology.

Notable Publications

Author	Pubmed ID	Journal	Application
Bin Dai	34560101	J Biol Chem	IF
Parimal Samir	31511697	Nature	WB,IF
Niclas Stefan Rasmussen	31681284	Front Immunol	

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

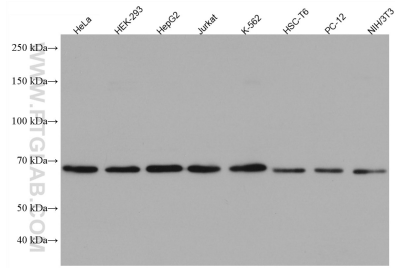
For technical support and original validation data for this product please contact:

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

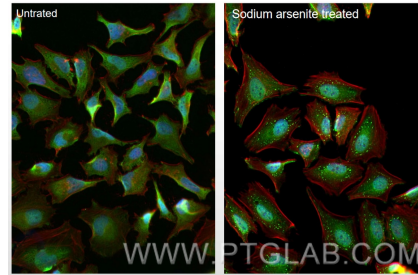
E: proteintech@ptglab.com
W: ptglab.com

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

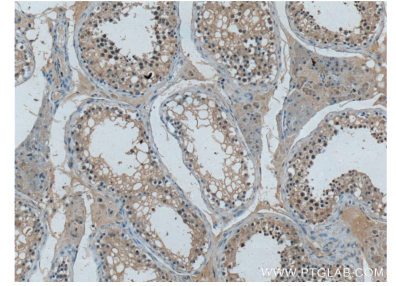
Selected Validation Data



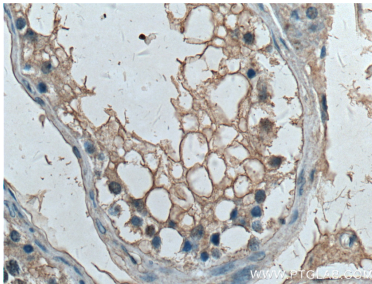
Various lysates were subjected to SDS PAGE followed by western blot with 66486-1-Ig (G3BP1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using G3BP1 antibody (66486-1-Ig, Clone: 1E4A2) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66486-1-Ig (G3BP antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66486-1-Ig (G3BP antibody) at dilution of 1:200 (under 40x lens).