

For Research Use Only

# G3BP1 Recombinant antibody, PBS Only

Catalog Number: 80777-1-PBS



## Basic Information

Catalog Number: 80777-1-PBS	GenBank Accession Number: BC006997	Purification Method: Protein A purification
Concentration: 1mg/ml	GeneID (NCBI): 10146	CloneNo.: 7F14
Source: Rabbit	UNIPROT ID: Q13283	
Isotype: IgG	Full Name: GTPase activating protein (SH3 domain) binding protein 1	
Immunogen Catalog Number: AG3728	Calculated MW: 466 aa, 52 kDa	

## Applications

Tested Applications:  
IHC, IF/ICC, IF-P, Indirect ELISA

Species Specificity:  
human, mouse

## 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.

## Storage

Storage:  
Store at -80°C.  
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:  
PBS only

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

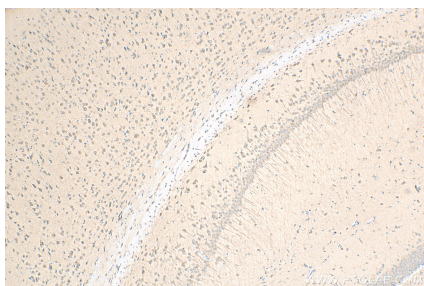
T: 4006900926

E: Proteintech-CN@ptglab.com

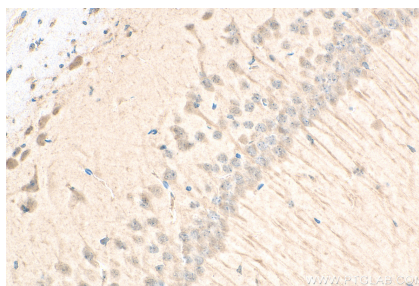
W: ptgcn.com

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

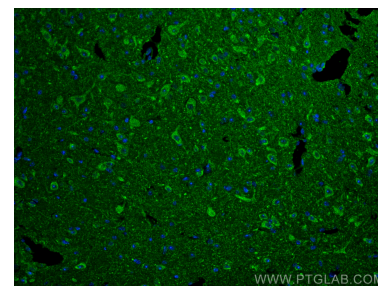
## Selected Validation Data



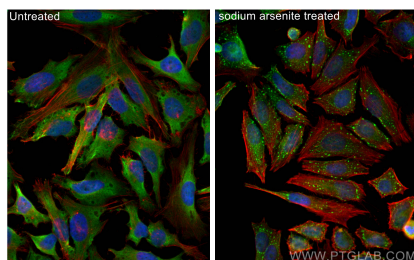
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 80777-1-RR (G3BP1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80777-1-PBS in a different storage buffer formulation.



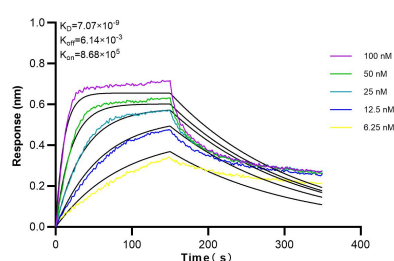
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 80777-1-RR (G3BP1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80777-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using G3BP1 antibody (80777-1-RR, Clone: 7F14) at dilution of 1:500 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80777-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using G3BP1 antibody (80777-1-RR, Clone: 7F14) at dilution of 1:1400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 80777-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 80777-1-RR against Human G3BP1 were performed. The affinity constant is 7.07 nM.