

For Research Use Only

G3BP1 Recombinant antibody, PBS Only

Catalog Number: 80777-1-PBS



Basic Information

Catalog Number:

80777-1-PBS

Size:

100ug , Concentration: 1mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3728

GenBank Accession Number:

BC006997

GeneID (NCBI):

10146

UNIPROT ID:

Q13283

Full Name:

GTPase activating protein (SH3 domain) binding protein 1

Calculated MW:

466 aa, 52 kDa

Purification Method:

Protein A purification

CloneNo.:

7F14

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 FTL-DU. 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.

Storage Buffer:

PBS only

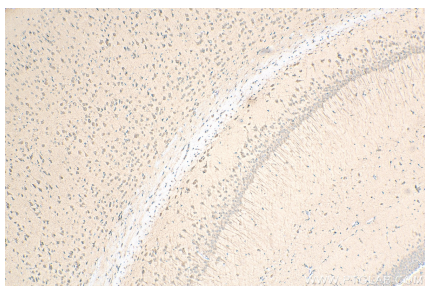
For technical support and original validation data for this product please contact:

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

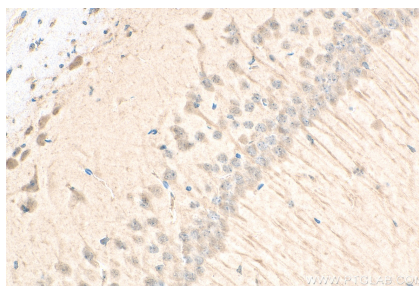
E: proteintech@ptglab.com
W: ptglab.com

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

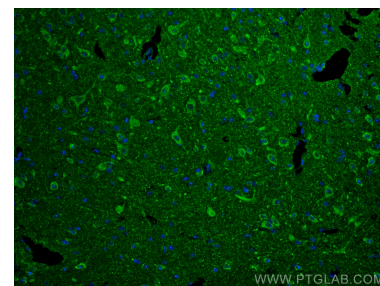
Selected Validation Data



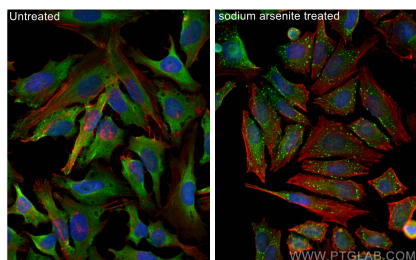
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 80777-1-RR (G3BP1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80777-1-PBS in a different storage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



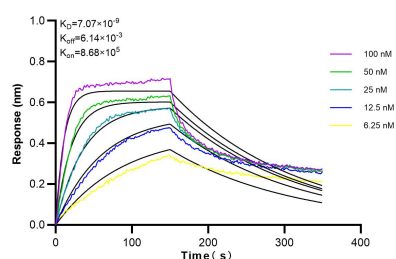
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 80777-1-RR (G3BP1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80777-1-PBS in a different storage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