

For Research Use Only

G3BP1 Recombinant antibody

Catalog Number: 80777-1-RR



Basic Information

Catalog Number: 80777-1-RR	GenBank Accession Number: BC006997	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 10146	CloneNo.: 7F14
Source: Rabbit	UNIPROT ID: Q13283	Recommended Dilutions: IHC 1:200-1:800 IF-P 1:250-1:1000 IF/ICC 1:500-1:2000
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, ELISA	Positive Controls:
Species Specificity: human, mouse	IHC : mouse brain tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IF-P : mouse brain tissue,
	IF/ICC : 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 FTL-D. 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

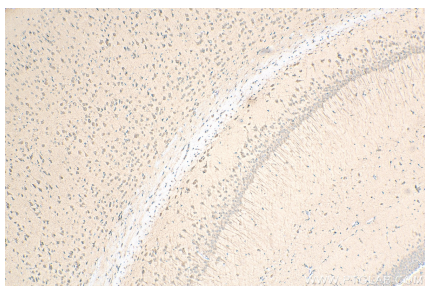
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

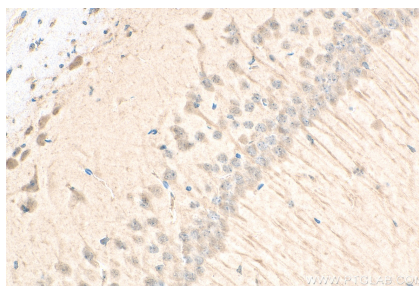
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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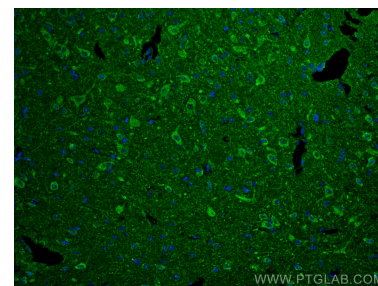
Selected Validation Data



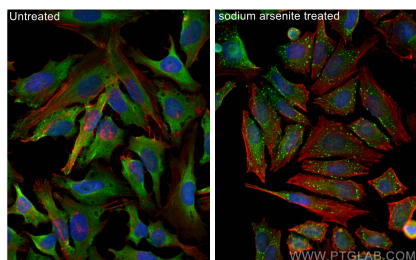
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 80777-1-RR (G3BP1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



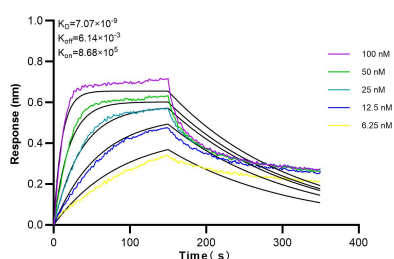
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 80777-1-RR (G3BP1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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).



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