For Research Use Only

G3BP1 Polyclonal antibody

Catalog Number:13057-2-AP

Featured Product 194 Publications

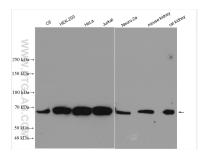


Basic Information	Catalog Number: 13057-2-AP	GenBank Accession Number: BC 006997		Purification Method: Antigen affinity purification	
	Concentration:	GenelD (NCI	BI):	Recommended Dilutions: WB 1:2000-1:16000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:200-1:800 IF/ICC 1:1000-1:4000	
	900 ug/ml	10146			
	Source: Rabbit	UNIPROT ID 013283	:		
	Isotype: IgG Immunogen Catalog Number: AG3728	Full Name:			
			vating protein (SH3 ding protein 1		
		Calculated M 466 aa, 52 k			
		Observed M 68 kDa	W:		
Applications	Tested Applications: WB, IHC, IF/ICC, FC (Intra), IP, ELISA Cited Applications: WB, IHC, IF, IP, CoIP, RIP Species Specificity: human, mouse, rat		Positive Co	ntrols:	
			Neuro-2a ce	WB : C6 cells, HEK-293 cells, human brain tissue, Neuro-2a cells, HeLa cells, HepG2 cells, MCF-7 cells Jurkat cells, mouse kidney tissue, rat kidney tissue, mouse brain tissue, rat brain tissue	
			IP : HEK-293	cells,	
	Cited Species: human, mouse, rat, pig, monkey, chicken			IHC : human colon cancer tissue, human breast can tissue, human lung cancer tissue	
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			ium 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 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	
	Jumin Park	34551427	Nucleic Acids Res	IF	
	Bin Dai	34560101	J Biol Chem	IF	
	Jozsef Gal	31481451	Mol Cell Biol	WB,IF	

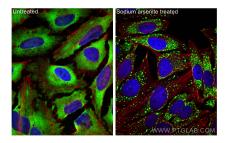
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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

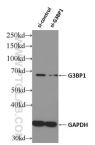
Selected Validation Data



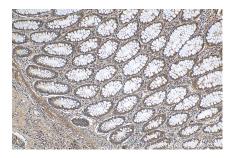
Various lysates were subjected to SDS PAGE followed by western blot with 13057-2-AP (G3BP1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



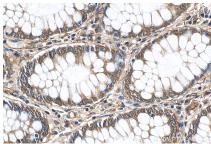
Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using G3BP1 antibody (13057-2-AP) at dilution of 1:2000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



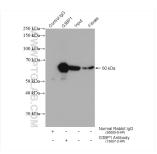
WB result of G3BP1 antibody (13057-2-AP; 1:100000; incubated at room temperature for 1.5 hours) with sh-Control and sh-G3BP1 transfected HEK-293 cells.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 13057-2-AP (G3BP1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 13057-2-AP (G3BP1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-G3BP1 (IP:13057-2-AP, 4ug; Detection:13057-2-AP 1:1000) with HEK-293 cells lysate 1040 ug.

1x10^6 HeLa cells were intracellularly stained with 0.25 ug G3BP1 Polyclonal antibody (13057-2-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).