For Research Use Only

SFPQ Monoclonal antibody

Catalog Number:67129-1-lg Featured Product 3 Publications



Basic Information	Catalog Number: 67129-1-lg	BC051192 GeneID (NCBI): ion: 1000 ug/ml by 6421 ug/ml by Bradford uNIPROT ID: P23246 Full Name: splicing factor proline/glutamine-rich		Purification Method: Protein A purification	
	Size:			CloneNo.: 1G4A5 Recommended Dilutions: WB 1:5000-1:50000 IHC 1:2000-1:8000 h IF/ICC 1:400-1:1600	
	150ul , Concentration: 1000 ug/ml by				
	Nanodrop and 514 ug/ml by Bradford method using BSA as the standard;				
	Source:				
	Mouse				
	lsotype: lgG1	(polypyrimidine tract associated)	binding protein	1	
	Immunogen Catalog Number: AG7181	Calculated MW: 76 kDa			
		Observed MW: 90-100 kDa			
Applications	Tested Applications:				
	WB, IHC, IF/ICC, FC (Intra), ELISA		WB : U-251 cells, HSC-T6 cells, HeLa cells, Jurkat cells,		
	Cited Applications: WB, IF		PC-3 cells, HEK-293 cells, NIH/3T3 cells, A431 cells, LNCaP cells, K-562 cells		
	Species Specificity:		IHC : rat stomach tissue, human colon cancer tissue,		
	human, mouse, rat Cited Species:	0		cancer tissue, human pancreas cancer e brain tissue, mouse stomach tissue, rat	
	human, mouse				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		cells, MCF-7 cells		
Background Information	probably forms a heteromer with NOI recently SFPQ was identified as a dou accumulation of SFPQ were shown in strikingly, reduced SFPQ levels may important role of SFPQ pathology in 1 and has a molecular weight of 76 kDa gel electrophoresis (SDS-PAGE) gel a apparent molecular weights of 47 and described in various cell types. (PMID significant intron-retaining transcript binds extensively to its retained intro controls. Crucially, the protein is less nuclei of MNs in mouse models (SOD	NO and participates in wnstream target of tau the neurons and astro- progress together with neurodegenerative dis a, although it typically t an apparent molecula d 68 kDa, and an altern 2: 25832716). Splicing f across diverse ALS-ca on, which exhibits high abundant in the nuclei 1mu and VCP mutation	DNA pairing and complete nucleicytes of brains with tau pathology, the eases including migrates on a sc ar weight of 100 atively spliced factor Proline ar using mutations cytoplasmic ab of VCP mutation	ear depletion and cytoplasmic vith Alzheimer's disease (AD), more these observation strongly suggests the AD. SFPQ encompasses 707 amino acic odium dodecyl sulfate-polyacrylamide O kDa. Proteolytic cleavage products of form of 669 amino acids, have also bee nd Glutamine rich (SFPQ) as the most is (VCP, SOD1 and FUS). SFPQ protein rundance in VCP mutation compared with on cultures and is ultimately lost from	
Notable Publications	Author Put	omed ID Jouri	nal	Application	
			ommun	WB,IF	
			Mol Sci	WB	
			Mol Sci	WB	
Storage	Storage:				
Storage	Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50				

PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20 $^{\circ}$ C storage

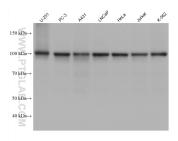
*** 20ul sizes contain 0.1% BSA

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) W: ptglab.com

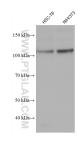
E: proteintech@ptglab.com

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

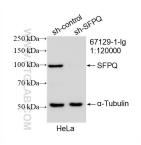
Selected Validation Data



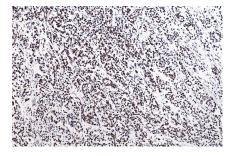
Various lysates were subjected to SDS PAGE followed by western blot with 67129-1-lg (SFPQ antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



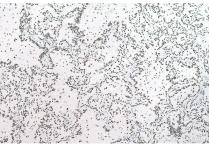
Various lysates were subjected to SDS PAGE followed by western blot with 67129-1-Ig (SFPQ antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



WB result of SFPQ antibody (67129-1-lg; 1:120000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SFPQ transfected HeLa cells.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 67129-1-Ig (SFPQ antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 67129-1-Ig (SFPQ antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 67129-1-1g (SFPQ antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-

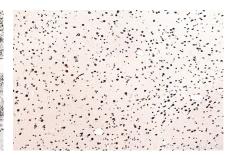
EDTA buffer (pH 9.0).

embedded mouse brain tissue slide using 67129-1-

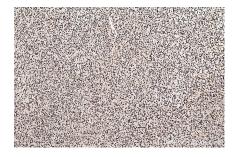
Ig (SFPQ antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-



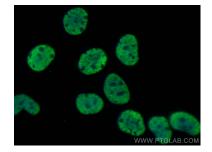
Immunohistochemical analysis of paraffinembedded mouse stomach tissue slide using 67129-1-1g (SFPQ antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



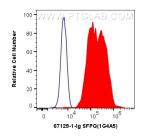
Immunohistochemical analysis of paraffinembedded rat brain tissue slide using 67129-1-lg (SFPQ antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).







Immunohistochemical analysis of paraffinembedded rat stomach tissue slide using 67129-1-Ig (SFPQ antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SFPQ antibody (67129-1-Ig, Clone: 1G4A5) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using SFPQ antibody (67129-1-1g, Clone: 1G4A5) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human SFPQ (67129-1-1g, Clone:1G4A5) and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).