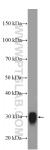
For Research Use Only

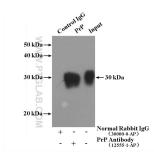
Prion protein PrP Polyclonal antibody Catalog Number:12555-1-AP 7 Publications



Basic Information	Catalog Number: 12555-1-AP	GenBank Accession Number: BC022532		Purification Method: Antigen affinity purification
	Size: 150ul , Concentration: 500 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG3257	GeneID (NCBI): 5621 UNIPROT ID: F7VJQ1 Full Name: prion protein Calculated MW: 34 kDa Observed MW: 30 kDa		Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200
Applications	Tested Applications: WB, IHC, FC (Intra), IP, ELISA Cited Applications:		Positive Controls: WB : mouse brain tissue, human brain tissue, rat br tissue	
	Species Specificity:		IP : mouse brain tissue, IHC : human gliomas tissue,	
	Cited Species: human, mouse, rat			
	Note-IHC: suggested antigen (TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen		
Background Information	Prion protein (PRNP) is a ubiquitous membrane glycoprotein whose abnormal self-replicating, misfolded form is widely believed to cause several central nervous system disorders, collectively known as Transmissible Spongiform Encephalopathies (TSE). Prion diseases are TSEs, attributed to conformational conversion of the cellular prion protein (PrPC) into an abnormal conformer that accumulates in the brain. The two isoforms, PrPC and PrPS, have the same primary amino acid sequence and only differ in conformation. While PrPC is composed of 42% a-helix and only 3% β -sheet, PrPSc is composed of 30% a-helix and 43% β -sheet. PrPC converts to its pathogenic isoform when the region corresponding to the residues 108-144 fold into β -sheets. PrPC is very soluble in detergents and easily digested by proteases while the PrPSc is insoluble in detergents and resistant to protease digestion. Prion diseases exist in infectious, sporadic, and genetic forms.			
Notable Publications	Author Put	omed ID Journa	ı	Application
		174115 Neuror		WB,IP
	Fei Liu 360	003082 Front M	Aol Biosci	IHC
	Yosuke Omae 310	020675 Transf	usion	WB
Storage *** 20ul sizes contain 0.1% BSA	Storage: Store at -20°C. Stable for one year af Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C :	0% glycerol		
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)	ta for this product please contact: 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.	

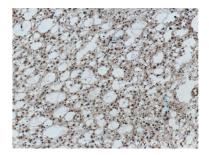
Selected Validation Data



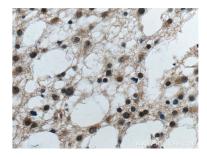


mouse brain tissue were subjected to SDS PAGE followed by western blot with 12555-1-AP (PrP Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

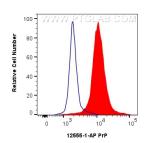
IP result of anti-PrP (IP:12555-1-AP, 4ug; Detection:12555-1-AP 1:1000) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 12555-1-AP (PrP Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 12555-1-AP (PrP Antibody) at dilution of 1:200 (under 40x lens).



1x10^6 SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human PrP (12555-1-AP) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).