For Research Use Only

Prion protein PrP Polyclonal antibody, PBS Only



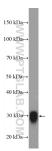
Catalog Number: 12555-1-PBS

Basic Information	Catalog Number: 12555-1-PBS	GenBank Accession Number: BC022532	Purification Method: Antigen affinity purification
	Size: 100ug , Concentration: 1 mg/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	
Applications	Tested Applications: WB, IHC, FC (Intra), IP, Indirect ELISA Species Specificity: human, mouse, rat		
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.		
Storage	Storage: Store at -80°C. Storage Buffer: PBS only		

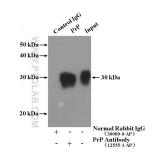
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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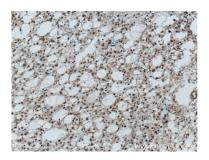
Selected Validation Data



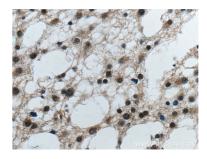
mouse brain tissue were subjected to SDS PAGE followed by western blot with 12555-1-AP (PrP Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12555-1-PBS in a different storage buffer formulation.



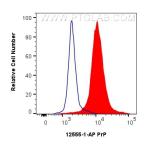
IP result of anti-PrP (IP:12555-1-AP, 4ug; Detection:12555-1-AP 1:1000) with mouse brain tissue lysate 4000ug. This data was developed using the same antibody clone with 12555-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 12555-1-AP (PrP Antibody) at dilution of 1:200 (under 10x lens). This data was developed using the same antibody clone with 12555-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 12555-1-AP (PrP Antibody) at dilution of 1:200 (under 40x lens). This data was developed using the same antibody clone with 12555-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 12555-1-PBS in a different storage buffer formulation.