For Research Use Only

Prion protein PrP/CD230 Polyclonal antibody

Catalog Number:12555-1-AP

8 Publications



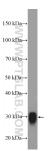
| Basic Information | Catalog Number: 12555-1-AP | GenBank Accession BC022532 | Number: | Purification Method: Antigen affinity purification |
|---|---|-------------------------------|--|---|
| | Size: | GenelD (NCBI): | | Recommended Dilutions: |
| | 150ul , Concentration: 500 ug/ml by | 5621 | | WB: 1:500-1:2000 |
| | Nanodrop; | UNIPROT ID: | | IP: 0.5-4.0 ug for 1.0-3.0 mg of total |
| | Source: | P04156 | | protein lysate |
| | Rabbit | Full Name: | | IHC: 1:20-1:200 |
| | Isotype: | prion protein | | |
| | IgG | Calculated MW: | | |
| | Immunogen Catalog Number: | 34 kDa | | |
| | AG3257 | Observed MW: 30 kDa | | |
| Applications | Tested Applications: | | Positive Cont | trols: |
| | WB, IHC, IP, ELISA | WB : mouse b | | rain tissue, human brain tissue, rat brai |
| | Cited Applications: | | tissue | |
| | WB, IHC, IP, CoIP | IP : mouse brain tissue, | | ain tissue, |
| | Species Specificity: | | IHC · human | gliomas tissue, |
| | human, mouse, rat | | | Stories assec, |
| | Cited Species: | | | |
| | human, mouse, rat | | | |
| | Note-IHC: suggested antig with TE buffer pH 9.0; (*) A antigen retrieval may be p with citrate buffer pH 6.0 | Alternatively, performed | | |
| 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, PrPS 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. Prior diseases exist in infectious, sporadic, and genetic forms. | | | |
| Notable Publications | Author Put | omed ID Jour | nal | Application |
| | Frank F Heisler 301 | 174115 Neur | on | WB,IP |
| | | | t Mol Biosci | IHC |
| | | | sfusion | WB |
| Storage | 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 s | ••• | | |
| *** 20ul sizes contain 0.1%BSA | | | | |
| For technical support and original validation dat T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free | ata for this product please contact: E: proteintech@ptglab.com | | This product is exclusively available under Proteinte Group brand and is not available to purchase from a | |

in USA), or 1(312) 455-8498 (outside USA)

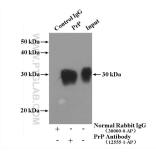
L. proterntecn@ptgl W: ptglab.com

other manufacturer.

Selected Validation Data



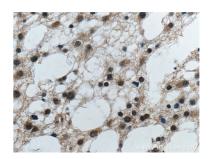
mouse brain tissue were subjected to SDS PAGE followed by western blot with 12555-1-AP (PrP Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).