

For Research Use Only

Prion protein PrP Recombinant antibody

Catalog Number: 85611-4-RR



Basic Information

| | | |
|--|---------------------------|------------------------|
| Catalog Number: | GenBank Accession Number: | Purification Method: |
| 85611-4-RR | BC012844 | Protein A purification |
| Size: | GeneID (NCBI): | CloneNo.: |
| 100ul , Concentration: 1000 µg/ml by Nanodrop; | 5621 | 243104D11 |
| Source: | UNIPROT ID: | Recommended Dilutions: |
| Rabbit | F7VJQ1 | WB 1:5000-1:50000 |
| Isotype: | Full Name: | |
| IgG | prion protein | |
| Immunogen Catalog Number: | Observed MW: | |
| EG3359 | 20-35 kDa | |

Applications

| | |
|----------------------|--------------------------------|
| Tested Applications: | Positive Controls: |
| WB, ELISA | WB : fetal human brain tissue, |
| Species Specificity: | |
| human | |

Background Information

Prion protein (PrP) 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 (PrP^C) into an abnormal conformer that accumulates in the brain. The two isoforms, PrP^C and PrP^{Sc}, have the same primary amino acid sequence and only differ in conformation. While PrP^C is composed of 42% α -helix and only 3% β -sheet, PrP^{Sc} is composed of 30% α -helix and 43% β -sheet. PrP^C converts to its pathogenic isoform when the region corresponding to the residues 108-144 fold into β -sheets. PrP^C is very soluble in detergents and easily digested by proteases while the PrP^{Sc} is insoluble in detergents and resistant to protease digestion. Prion diseases exist in infectious, sporadic, and genetic forms.

Storage

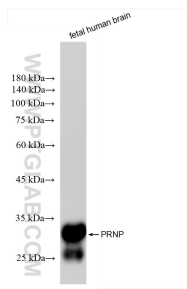
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 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)
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



fetal human brain tissue was subjected to SDS PAGE followed by western blot with 85611-4-RR (PRNP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.