

For Research Use Only

# Prion protein PrP Recombinant antibody, PBS Only

Catalog Number: 85611-4-PBS



## Basic Information

Catalog Number: 85611-4-PBS	GenBank Accession Number: BC012844	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 5621	CloneNo.: 243104D11
Source: Rabbit	UNIPROT ID: F7VJQ1	
Isotype: IgG	Full Name: prion protein	
Immunogen Catalog Number: EG3359	Observed MW: 20-35 kDa	

## Applications

Tested Applications:  
WB, Indirect ELISA  
Species Specificity:  
human

## 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%  $\alpha$ -helix and only 3%  $\beta$ -sheet, PrPSc is composed of 30%  $\alpha$ -helix and 43%  $\beta$ -sheet. PrPC converts to its pathogenic isoform when the region corresponding to the residues 108-144 fold into  $\beta$ -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.  
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C  
Storage Buffer:  
PBS only, pH7.3

For technical support and original validation data for this product please contact:

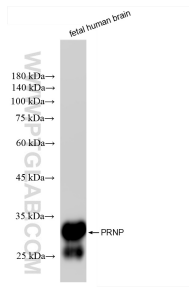
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## Selected Validation Data



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. This data was developed using the same antibody clone with 85611-4-PBS in a different storage buffer formulation.