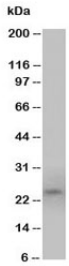
PrP Antibody [Prion protein] (R30892)

Catalog No.	Formulation	Size
R30892	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P04156
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml
Limitations	This PrP antibody is available for research use only.



Western blot testing of PrP antibody and U87 cell lysate (human glioma). Expected molecular weight: 20~29kDa.

Description

Prion protein, also known as CD230 and PrP, is a protein that in humans is encoded by the PRNP gene. Expression is predominantly in the nervous system but occurs to some degree in many other tissues throughout the body. Puckett et al.(1991)identified a RFLP with a high degree of heterozygosity in the 5-prime region of the PRNP gene, which might serve as a useful marker for the pter-p12 region of chromosome 20. PrP is associated with a variety of cognitive deficiencies and neurodegenerative diseases such as Creutzfeldt-Jakob disease, bovine spongiform encephalopathy,

and kuru. The protein is highly conserved through mammals, lending credence to application of conclusions from test animals such as mice. Comparison between primates is especially similar, ranging from 92.9-99.6% similarity in amino acid sequences.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the PrP antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the middle region of human Prion protein (DYEDRYYRENMHRYPNQ) was used as the immunogen for this PrP antibody.

Storage

After reconstitution, the PrP antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.