

## Anti-Prion protein PrP/PRNP Antibody

Catalog Number: PA1795

### About Prnp

PRNP(prion protein), also known as CD230 and PRP, is a protein that in humans is encoded by the PRNP gene. The major prion protein is expressed in the brain and several other tissues. Expression is most predominant in the nervous system but occurs 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. PRNP is associated with a variety of cognitive deficiencies and neurodegenerative diseases such as Creutzfeldt-Jakob disease, bovine spongiform encephalopathy, and kuru. PRNP 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.

### Overview

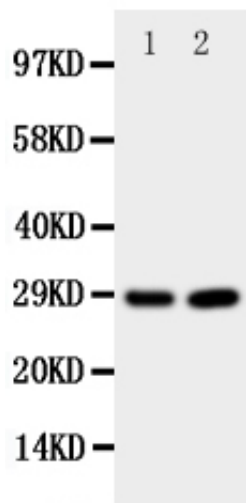
Product Name	Anti-Prion protein PrP/PRNP Antibody
Reactive Species	Mouse, Rat
Description	Rabbit IgG polyclonal antibody for Major prion protein(PRNP) detection. Tested with WB, IHC-P in Mouse;Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P04925

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of mouse PRNP
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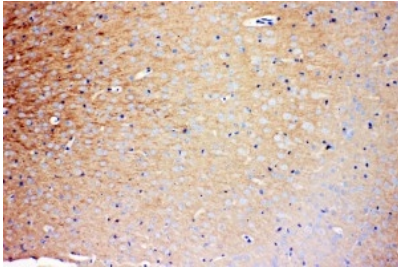
	(143-159aa DWEDRYRENMYRPNQ), identical to the related rat sequence.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross reactivity with other proteins
Isotype	N/A
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry(Paraffin-embedded Section), 0.5-1µg/ml, Rat, Mouse, By Heat Western blot, 0.1-0.5µg/ml, Rat, Mouse  For protocols please visit <a href="https://www.bosterbio.com/protocol-and-troubleshooting/">https://www.bosterbio.com/protocol-and-troubleshooting/</a>

## Anti-Prion protein PrP/PRNP Antibody (PA1795) Images



Anti-PRNP antibody, PA1795, Western blotting  
All lanes: Anti PRNP (PA1795) at 0.5ug/ml  
Lane 1: Rat Brain Tissue Lysate at 50ug  
Lane 2: Rat Brain Tissue Lysate at 50ug  
Predicted bind size: 28KD  
Observed bind size: 28KD

Anti-PRNP antibody, PA1795, IHC(P)  
IHC(P): Rat Brain Tissue



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