

# IHCeasy<sup>®</sup> PRNP Ready-To-Use IHC Kit

Catalog Number: **KHC1191**

## General Information

Sample type:  
FFPE tissue  
Cited sample type:  
Reactivity:  
Human  
Cited Reactivity:

Assay type:  
Immunohistochemistry  
Primary antibody type:  
Rabbit Polyclonal  
Secondary antibody type:  
Polymer-HRP-Goat anti-Rabbit

## Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL ×2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

## Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

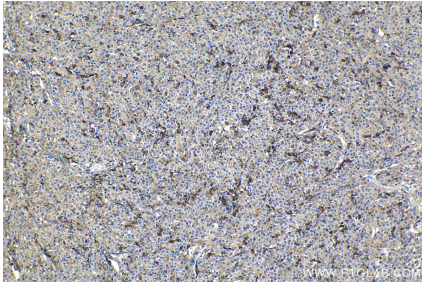
## Background

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

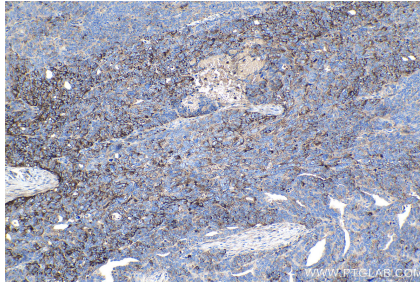
## Synonyms

ASCR, CD230, CJD, GSS, Major prion protein, prion, prion protein, PRIP, PRNP, PrP, PrP27 30, PrP33 35C, PrP<sup>C</sup>

## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using KHC1191 (PRNP IHC Kit).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using KHC1191 (PRNP IHC Kit).