

## Product datasheet for **TA300958**

### Prion protein PrP (PRNP) Rabbit Monoclonal Antibody [Clone ID: EP1802Y]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	EP1802Y
Applications:	FC, IHC, WB
Recommended Dilution:	WB: 1:5000 - 1:10000; FC: 1:200; IHC-P: Use at an assay dependent dilution; ICC/IF: 1:100 - 1:250
Reactivity:	Mouse, Rat, Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to residues near the C-terminus of human Prp was used as an immunogen.
Formulation:	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
Purification:	Tissue culture supernatant
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	28 kDa
Gene Name:	prion protein
Database Link:	<a href="#">NP_898902</a> <a href="#">Entrez Gene 19122 Mouse</a> <a href="#">Entrez Gene 24686 Rat</a> <a href="#">Entrez Gene 5621 Human</a> <a href="#">F7VIQ1</a>



[View online »](#)

**Background:**

Prion diseases are transmissible neurodegenerative disorders which affect a range of mammalian species. In humans they can be inherited and sporadic as well as acquired by exposure to human prions. Prions appear to be composed principally of a conformational isomer of host-encoded prion protein and propagate by recruitment of cellular prion protein (1). The function of the cellular prion protein (PrP) is still poorly understood. It has been proposed that one unprecedented role for PrP is against Bax-mediated neuronal apoptosis. It has been shown that PrP potently inhibits Bax-induced cell death in human primary neurons (2). An impaired synaptic inhibition may be involved in the epileptiform activity seen in Creutzfeldt-Jakob and other neurodegenerative diseases and it is believed that loss of function of PrP may contribute to the early synaptic loss and neuronal degeneration seen in these diseases (3).

**Synonyms:**

AltPrP; ASCR; CD230; CJD; GSS; KURU; p27-30; PRIP; PrP; PrP27-30; PrP33-35C; PrPc

**Note:**

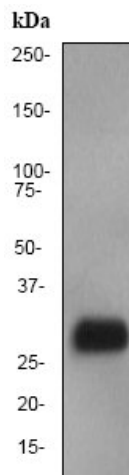
Is unsuitable for IP.

**Protein Families:**

ES Cell Differentiation/IPS, Stem cell - Pluripotency, Transmembrane

**Protein Pathways:**

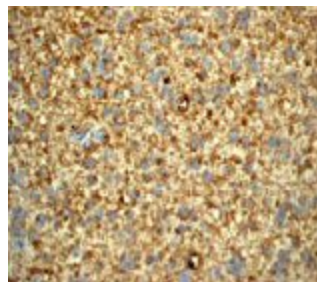
Prion diseases

**Product images:**

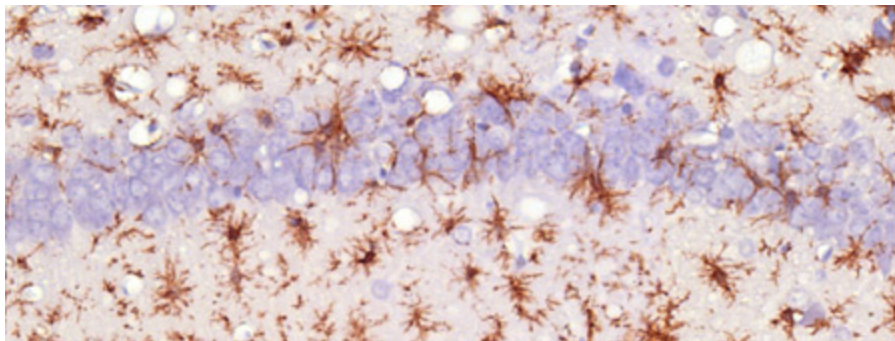
Western blot - Prion protein PrP antibody [EP1802Y]; Anti-Prion protein PrP antibody [EP1802Y] at 1/10000 dilution + fetal brain lysate at 10 ug. Secondary.HRP-labelled goat anti-rabbit at 1/2000 dilution.Predicted band size : 28 kDa.



Western blot ; Anti-Prion protein PrP antibody [EP1802Y] at 1/5000 dilution + Mouse Prion protein PrP full length protein at 0.01 ug.Secondary.Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (HRP), pre-adsorbed at 1/5000 dilution.developed using the ECL technique.Performed under reducing conditions.Exposure time : 10 seconds



Immunohistochemistry (Paraffin-embedded sections) - Prion protein PrP antibody [EP1802Y]; Immunohistochemical analysis of brain glioma using TA300958 at a dilution of 1/100-1/250.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prion protein PrP antibody [EP1802Y]; Immunohistochemical analysis of Prion-infected mouse brain tissue, staining Prion protein PrP with TA300958. Antigen retrieval was performed by heat mediation in a citrate buffer (pH 6) before incubating with primary antibody (1/7000) overnight at 4°C. Staining was detected using DAB.

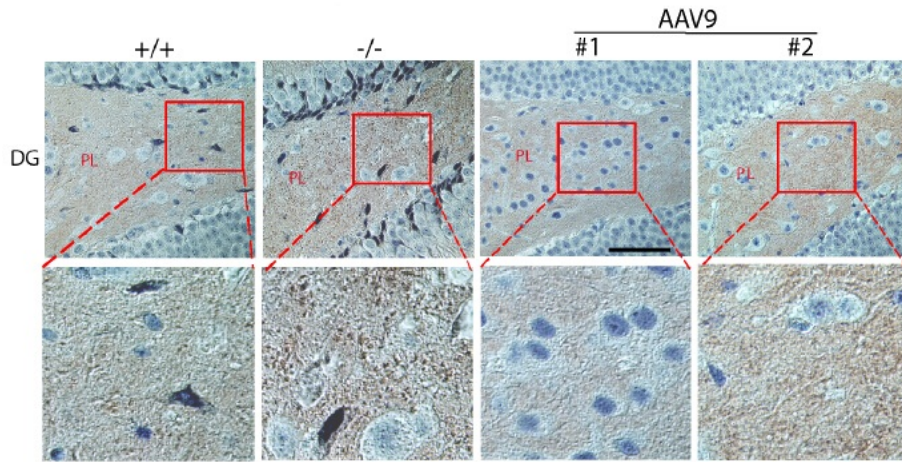
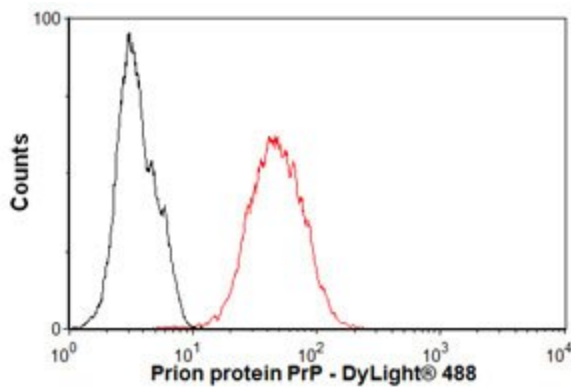


Figure from citation: Immunohistochemistry of PRNP protein level by using anti-PRNP antibody in mouse brain tissue sections. Prnp-positive signals were stained brown. +/+ : wt mice; -/-: non-treated MPS IIIIB mice; AAV9: rAAV9-treated MPS IIIIB mice; #1: mouse with low Prnp IHC intensity; #2: mouse with high Prnp IHC intensity; DG: dentate gyrus of hippocampus. PL: polymorph layer of DG. Scale bar: 50  $\mu$ m. [View Citation](#)



Flow Cytometry-Anti-Prion protein PrP antibody (TA300958); Overlay histogram showing SH-SY5Y cells stained with TA300958 (red line). The secondary antibody used was DyLight 488 goat anti-rabbit IgG (H+L) at 1:500. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1 $\mu$ g/1x10<sup>6</sup> cells) used under the same conditions. This antibody gave a positive signal in SH-SY5Y cells under the same conditions.