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# Prion protein PrP Rabbit pAb

**Catalog # AP53555**

## Specification

### Prion protein PrP Rabbit pAb - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | P04156 |
| Reactivity | **Rat** |
| Host | **Rabbit** |
| Clonality | **Polyclonal Antibody** |
| Calculated MW | **27661** |

### Prion protein PrP Rabbit pAb - Additional Information

**Gene ID** 5621

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

**Dilution**
WB~~1:1000

### Prion protein PrP Rabbit pAb - Protein Information

**Name** PRNP

**Synonyms** ALTPRP, PRIP, PRP

**Function**
Its primary physiological function is unclear. May play a role in neuronal development and synaptic plasticity. May be required for neuronal myelin sheath maintenance. May promote myelin homeostasis through acting as an agonist for ADGRG6 receptor. May play a role in iron uptake and iron homeostasis. Soluble oligomers are toxic to cultured neuroblastoma cells and induce apoptosis (in vitro) (By similarity). Association with GPC1 (via its heparan sulfate chains) targets PRNP to lipid rafts. Also provides Cu(2+) or Zn(2+) for the ascorbate-mediated GPC1 deaminase degradation of its heparan sulfate side chains (By similarity).

**Cellular Location**
Cell membrane; Lipid-anchor, GPI-anchor. Golgi apparatus {ECO:0000250|UniProtKB:P04925}. Note=Targeted to lipid rafts via association with the heparan sulfate chains of GPC1. Colocates, in the presence of Cu(2+), to vesicles in para- and perinuclear regions, where both proteins undergo internalization. Heparin displaces PRNP from lipid rafts and promotes endocytosis.

### Prion protein PrP Rabbit pAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

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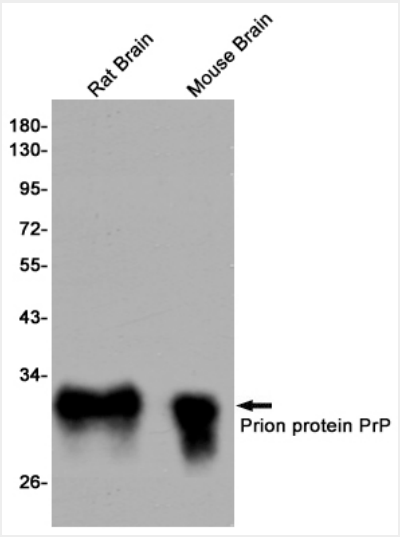
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

**Prion protein PrP Rabbit pAb - Images**




Western blot detection of Prion protein PrP in Rat Brain and Mouse Brain lysates using Prion protein PrP rabbit pAb (1:1000 diluted).Predicted band size:28kDa.Observed band size:28kDa.

**Prion protein PrP Rabbit pAb - Background**

Swiss-Prot Acc.P04156.Its primary physiological function is unclear. May play a role in neuronal development and synaptic plasticity. May be required for neuronal myelin sheath maintenance. May promote myelin homeostasis through acting as an agonist for ADGRG6 receptor. May play a role in iron uptake and iron homeostasis. Soluble oligomers are toxic to cultured neuroblastoma cells and induce apoptosis (in vitro) . Association with GPC1 (via its heparan sulfate chains) targets PRNP to lipid rafts. Also provides Cu2+ or ZN2+ for the ascorbate-mediated GPC1 deaminase degradation of its heparan sulfate side chains .