

**Anti-Prion Protein Antibody**  
Catalog # AN1918**Specification****Anti-Prion Protein Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P04156</a>
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG2a
Calculated MW	27661

**Anti-Prion Protein Antibody - Additional Information**

Gene ID	5621
<b>Other Names</b>	
PrP, PrPsc, PrPc	

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Anti-Prion Protein Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

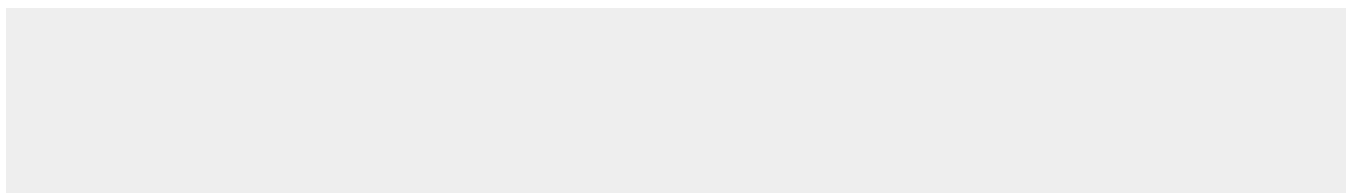
**Shipping**

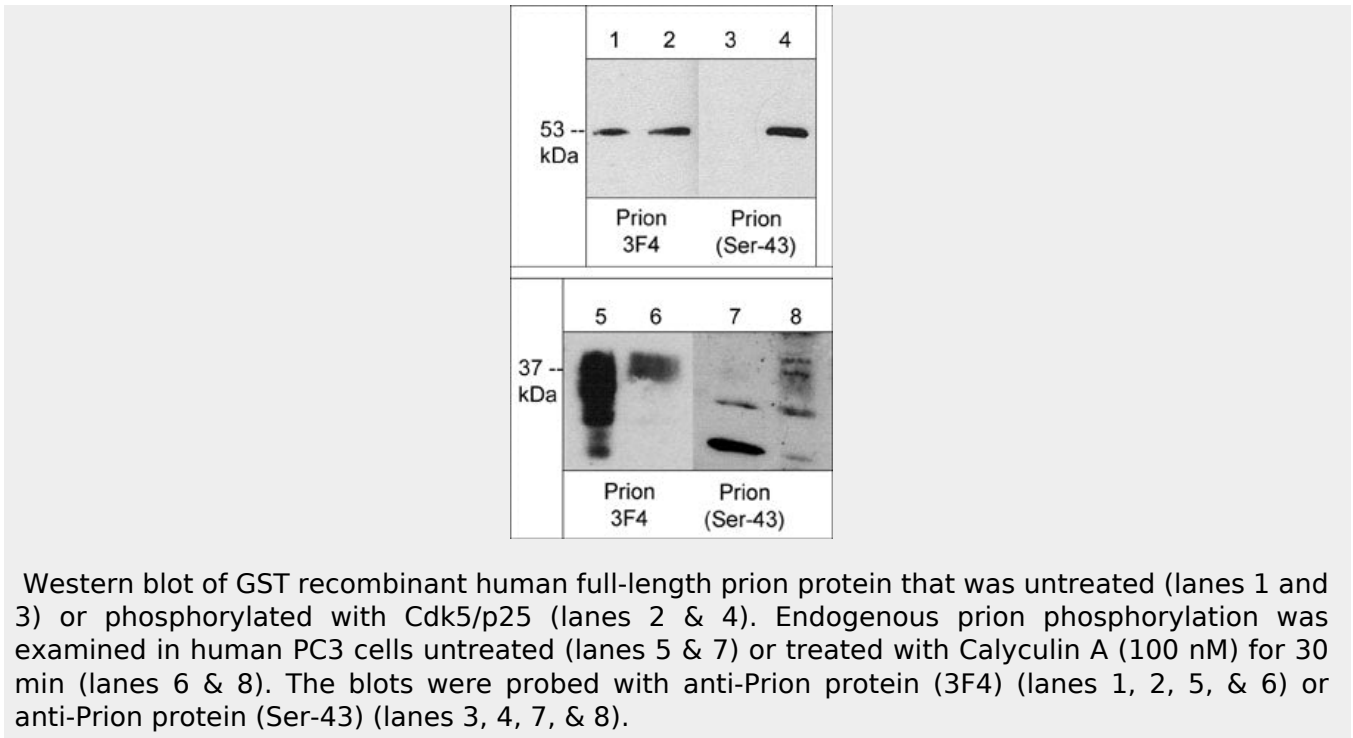
Blue Ice

**Anti-Prion Protein Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Prion Protein Antibody - Images**



**Anti-Prion Protein Antibody - Background**

Prion related neurodegenerative diseases, called transmissible spongiform encephalopathies, are observed in many animal species. These diseases involve conversion of normal cellular prion protein (PrPc) into a form that is insoluble and resistant to proteases (PrPSc). The protease resistant form can polymerize into fibrils which accumulate in infected tissues and cause cell death and tissue damage. PrPs have an N-terminal signal sequence and a C-terminal linkage to glycosylphosphatidylinositol anchor. The mature protein is a glycosylated protein that associates with cell membranes. Phosphorylation of PrPc at Ser-43 by Cdk5 promotes proteinase K resistance, prion aggregation, and fibril formation in vitro. In addition, Ser-43 phosphorylation is upregulated in scrapie-infected mouse brain relative to controls. Thus, phosphorylation of Ser-43 may be an important mechanism leading conversion of PrPc to PrPSc and the onset of disease.