



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Goat Anti Human Prion Protein

With HRP-Conjugated Second Antibody

Catalog No.

DS-PB-00418

Target Species

Human

Isotype

Polyclonal IgG

Preparation

Preparation: Antisera to human PrP²⁷⁻³⁰ were raised by repeated immunization of goats with highly purified antigen.

Immunogen: Synthetic peptide corresponding to amino acids 79-97 of the N-terminus of human prion protein

Specificity

Also known as CD230, Prion protein was classified as CD230 at the 7th HLDA workshop. CD230 is a large membrane protein expressed normally in neurons, and thought to be involved in synaptic transmission. In certain diseases, most notably Creutzfeld-Jakob disease (CJD) and bovine spongiform encephalopathy (BSE), normal prion protein (PrP^c) is transformed into an altered, pathogenic form (PrP^{sc}). This altered form is resistant to proteolytic degradation and accumulates in the brains of affected individuals.

DS-PB-00418 has been shown to stain PrP^{sc} plaques in formalin fixed sections of CJD brain. It also reacts with normal prion protein (PrP^c).

Immunohistology: This product does not require protein digestion pre-treatment of paraffin sections. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.

Histology Positive Control Tissue: CJD brain

Species Cross Reactivity: Reacts with: Sheep, Bovine, and Hamster

*Antibody reactivity and working conditions may vary between species.

Formulation

Product Type: Polyclonal Antibody

Product Form: Serum - liquid

Preservative Stabilizers: 0.09% Sodium Azide

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 18 months from date of dispatch.

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			.	
Western Blotting			.	
Immunohistology - frozen			.	
Immunohistology - paraffin	.			1:200
Flow Cytometry			.	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	.			1:5000-1:10000

Recommended Reading

1. Shinagawa, M. *et al.* (1986) Immunoreactivity of a synthetic pentadecapeptide corresponding to the N-terminal region of the scrapie prion protein. J. Gen. Virol. 67: 1745-1750.

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