

## Datasheet: AHP498

<b>Description:</b>	GOAT ANTI HUMAN CD230 (N-TERMINAL)
<b>Specificity:</b>	CD230 (N-TERMINAL)
<b>Other names:</b>	PRION PROTEIN
<b>Format:</b>	Serum
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			1/200
ELISA	▪			1/10,000 - 1/30,000
Immunoprecipitation			▪	
Western Blotting	▪			1/2000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Bovine, Sheep, Hamster <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Serum - liquid
<b>Antiserum Preparation</b>	Antisera to human PrP27-30 were raised by repeated immunisation of goats with highly purified antigen.
<b>Preservative Stabilisers</b>	0.1% Sodium Azide
<b>Immunogen</b>	Synthetic peptide corresponding to amino acids 79-97 of the N-terminus of human prion protein

### External Database Links

**UniProt:**  
[P04156](#)    [Related reagents](#)

**Entrez Gene:**

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<b>Synonyms</b>	PRIP, PRP
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<b>Specificity</b>	<p><b>Goat anti Human CD230 antibody</b> recognizes human Major prion protein, also known as PrP27-30, CD230, or PrP33-35C. CD230 is a 253 amino acid ~27 kDa GPI anchored membrane protein. CD230 is found in large amounts in the brain of patients with transmissible spongiform encephalopathies (TSEs) or prion diseases, fatal infectious neurodegenerative diseases of humans and animals. These diseases are biologically unique, as they are believed by some to be transmitted by an infectious agent comprised only of protein, with no nucleic acid component. Clinically, these diseases present with motor disturbances and behavioural changes. The major pathological changes seen are neuronal loss, vacuolation (spongiform change), proliferation and branching of glial cells, astrocytic proliferation and accumulation of the prion protein PrP<sup>Sc</sup>, which can form amyloid plaques.</p> <p>CD230, also known as the prion protein (PrP) exists in two alternate forms; a normal cellular form (PrP<sup>C</sup>) and a disease-associated form (PrP<sup>Sc</sup>). The normal and pathological forms of the prion protein have identical amino acid sequences and differ only in their folded tertiary structure and biochemical properties.</p> <p><b>Goat anti Human CD230 (N-Terminal) antibody</b> has been shown to stain PrP<sup>Sc</sup> plaques in formalin fixed sections of CJD brain. It also reacts with PrP<sup>C</sup>.</p>
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<b>Immunohistology</b>	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.
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<b>Histology Positive Control Tissue</b>	CJD brain
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<b>References</b>	<ol style="list-style-type: none"><li>1. Shinagawa, M. <i>et al.</i> (1986) Immunoreactivity of a synthetic pentadecapeptide corresponding to the N-terminal region of the scrapie prion protein. <a href="#">J Gen Virol. 67 ( Pt 8): 1745-50.</a></li><li>2. Mao-Draayer, Y.<i>et al.</i> (2002) Emerging patterns of diffusion-weighted MR imaging in Creutzfeldt-Jakob disease: case report and review of the literature. <a href="#">AJNR Am J Neuroradiol. 23 (4): 550-6.</a></li></ol>
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<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>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.</p>
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<b>Shelf Life</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10342 available at: 10342: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10342.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10342.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

## Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

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