

Product Datasheet

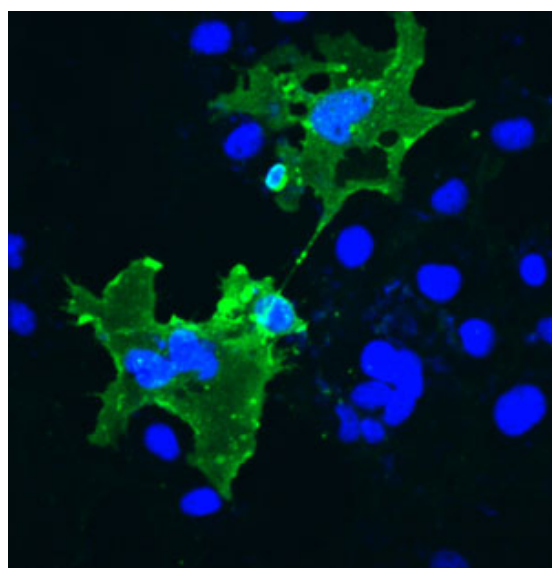
Chickens make *better* antibodies.

Anti-Prion Protein Antibody

Overview

Catalog #	PRN
Concentration	10 mg/mL
Host Species	Chicken Polyclonal
Format	Mixture of IgY fraction and affinity-purified antibodies
Buffer	Sodium phosphate (10 mM, pH 7.2) buffered isotonic saline (0.9%, w/v), glycerol (50%, v/v), with sodium azide (0.02%, w/v) as an anti-microbial agent.
Applications	IHC 1:1000-1:2000 ICC 1:1000-1:2000 WB 1:2500-1:5000
Species Reactivity	Human, Mouse, and Rat
Immunogen	Recombinant fragment of human prion
Molecular Weight	27 kDa
Cite this Antibody	Aves Labs Cat# PRN, RRID: AB_2313559

Images



Mouse fibroblast cultures transfected with a recombinant fragment of the mouse prion protein (green staining). Non-infected cells show labeled nuclei (blue staining) due to treatment with Hoechst stain.

Details

Target Description	Prion protein is a ubiquitously-expressed, 27661 dalton protein (253 amino acids, NP_898902.1) of unclear function(s) in eukaryotes. This protein can exist in one of two conformational forms. One is its normally-folded form (PrP ^c or "cellular PrP"), which contains a mixture of alpha helical regions and a few beta-pleated sheets. The other is a misfolded form (PrP ^{Sc} or "scrapie PrP") whose structure contains mostly beta-pleated sheets. This misfolded scrapie PrP form is cytotoxic, especially to nervous tissue, and can serve as a "seed," inducing adjacent, normally-folded PrP proteins to misfold into the cytotoxic conformation. In this sense, the scrapie PrP can be thought of as an infectious agent both within the organism as well between organisms.
Purification Method	Chickens were immunized with a recombinant fragment of human PRN protein emulsified in Freund's adjuvants. After multiple injections, eggs were collected from the hens, IgY fractions were prepared from the yolks, and then affinity-purified antibodies were prepared using the PRN protein conjugated to an agarose matrix. The final product is a mixture of both affinity-purified antibodies (25 µg/mL) and purified IgY (10 mg/mL), mixed with glycerol 1:1 (v/v) (to prevent freezing at -20°C), augmented with sodium azide and then filter-sterilized.
Quality Control Tests	Antibodies were analyzed by immunocytochemistry (1:1000 dilution) using cells transfected with the prion protein cDNA.
Storage	Store at -20°C in the dark. Under these conditions, the antibodies should have a shelf life of at least twelve months, provided they remain sterile.

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