



Prion Protein Monoclonal Antibody - Sha31

Cat No: A03213 - 200 µg

General Data

Shipping:	Dry Ice
Formulation:	lyophilized IgG with BSA
Host:	Mouse
Antigen:	This anti-prion protein (PrP) monoclonal antibody was raised against proteinase K treated and non-denatured scrapie-associated fibrils from Syrian hamster infected brain (263K).
Clone:	Sha 31
Isotype:	IgG1k

Application(s): Reconstitute the content of the vial in 1 mL of water.

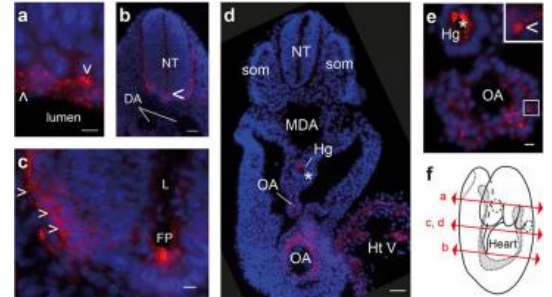
For EIA, the optimal working dilution must be determined empirically (currently between 0.1 and 1 µg/mL). For western blot analysis of PrPc, dilute the antibody to a final concentration of 1 µg/mL.

Specificity: PrPc (+), PrPsc (nda) Hamster, (+) Mouse, (nda) Bovine, (+) Ovine, (+) Human.

Product Overview

Prion Protein (PrP) and namely its abnormal isoform, partially resistant to proteinase K (PrP^{Sc}), is the only specific molecular marker of the Transmissible Spongiform Encephalopathies (TSEs) such as Bovine Spongiform Encephalopathie (BSE) or its human form, the New Variant of Creutzfeld-Jakob disease.

This antibody recognises the human protein sequence within amino acids 145-152 (human numbering).



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Scientific Literature

Vulin J, Biacabe AG, Cazeau G, Calavas D, and Baron T Molecular typing of protease-resistant prion protein in transmissible spongiform encephalopathies of small ruminants, France, 2002-2009. *Emerg Infect Dis*, Jan 2011; 17(1): 55-63.

Morel N., Simon S., Frobert Y., Volland H., Mourton-Gilles C., Negro A., Sorgato M.C., Creminon C., and Grassi J. Selective and efficient immunoprecipitation of the disease-associated form of the prion protein can be mediated by nonspecific interactions between monoclonal antibodies and scrapie-associated fibrils.

J Biol Chem, 279 :30143-9 (2004)

Notari S., Capellari S., Langeveld J., Giese A., Strammiello R., Gambetti P., Kretzschmar H.A., and Parchi P. A refined method for molecular typing reveals that co-occurrence of PrP(Sc) types in Creutzfeldt-Jakob disease is not the rule.

Lab Invest 87, 1103-12 (2007).

Feraudet C, Morel N, Simon S, Volland H., Frobert Y., Creminon C., Vilette D., Lehmann S., and Grassi J. Screening of 145 anti-PrP monoclonal antibodies for their capacity to inhibit PrPSc replication in infected cells.

J Biol Chem 2005, 280:11247–11258

FP/22/24

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