

DATASHEET

Prion (3F4) Monoclonal Antibody *Exclusively Provided by Covance*

Catalog Number: SIG-39600

Available Size: 0.2 mL, 0.5 mL, 1.0 mL

Description:

Monoclonal Antibody against Prion Protein (3F4)
(Formerly Signet Catalog Nos: 9600-02, 9600-05, 9600-10)

Clone:

3F4

Host:

Mouse

Covance is the Exclusive Provider of this Antibody Product

IsoType:

IgG2a

Also Known As:

major prion protein; p27-30; CD230 antigen; prion protein PrP; prion-related protein

Species Reactivity:

Human, Hamster, Feline

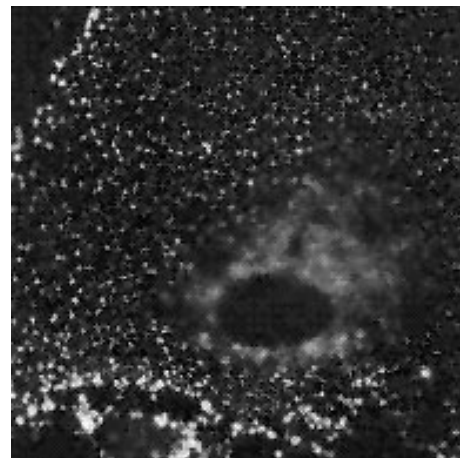
Intended Use:

****Research Use Only (RUO)****

This product is sold for laboratory research use only, not for human or in-vivo use.

Form:

Ascites



Immunofluorescence using 3F4 Prion monoclonal antibody on neurons from 263k infected hamster brain.

Specificity:

3F4 is reactive to amino acid residues 109-112 of prion protein (PrP) from humans, hamsters, and felines. It recognizes both protease sensitive and protease resistant forms of PrP (after denaturing).

Uses:

This antibody is effective in immunoblotting (WB), immunohistochemistry (IHC) on unfixed tissues, immunoprecipitation (IP) and ELISA.

Suggested Working Dilution:

The optimal working dilution should be determined for each specific assay condition.

- **WB:** 1:10,000 - 1:100,000 (Refs 2, 4)
- **IHC:** 1:100 - 1:1,000 (Refs 2, 4)

Pretreatment: Epitope must be re-exposed in fixed tissue by pretreatment of tissue using one of the following procedures:

1. 70% Formic acid for 10-30 min at RT (Ref 1)
2. Hydrolytic autoclaving (Ref 2)

- **IP:** 1:10-1:100 (Ref 3, 4)
- **ELISA:** 1:100,000- 1:1,000,000 (Ref 2, 4)

Storage:

Do not store antibody diluted below 50 ug/mL in the absence of protein (i.e.: add 2% bovine serum albumin). It is suggested that the total volume is aliquoted upon initial thaw. The antibody is best stored undiluted at -20°C to -70°C.

See reverse side for additional information

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References:

1. Kondoh G, et al. Angiotensin-converting enzyme is a GPI-anchored protein releasing factor crucial for fertilization. *Nat Med* 11(2):160-66, 2005. **(IHC)**
2. Gilch S, et al. Recognition of luminal prion protein aggregates by post-ER quality control mechanisms is mediated by the proctarepeat region of PrP. *Traffic* 5:300-313, 2004. **(WB, IHC, ELISA)**
3. Nishina K, et al. In vitro prion protein conversion in detergent-solubilized membranes. *Biochem* 43:2613-2621, 2004. **(IP)**
4. Shiga Y, et al. Diffusion-weighted MRI abnormalities as an early marker for Creutzfeldt-Jakob disease. *Neurol* 63:443-449, 2004. **(WB, IHC, IP, ELISA)**
5. Zou W, et al. Antibody to DNA detects scrapie but not normal prion protein. *PNAS* 101(5):1380-1385, 2004.
6. Kitamoto T, et al. Formic acid pretreatment enhances immunostaining of cerebral and systemic amyloids. *Lab Invest* 57:230-236, 1987.
7. Kascsak, et al. Mouse polyclonal and monoclonal antibody to scrapie associated fibril proteins. *J Virol* 61:3688-3693, 1987.

Warranty/Conditions:

Covance products may not be resold or modified for resale without prior written approval. All sales are subject to Covance Antibody Products Terms and Conditions of Sale.

Datasheet Revision Date:

11/6/2011

Related Products:

- Prion (3F4) Monoclonal Antibody, Biotin Labeled (SIGNET) *Exclusively Provided by Covance* Catalog Number SIG-39640
- Prion (3F4) Monoclonal Antibody, Purified (SIGNET) *Exclusively Provided by Covance* Catalog Number SIG-39620