



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-Prion protein [D18] Bulk Size Ab03218-3.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

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**Isotype and Format:** Mouse IgG2b, [Fc Silent™](#), Kappa

**Clone Number:** D18

**Alternative Name(s) of Target:** PrPC; ASCR; PrP27-30; PrP33-35C; CD230

**UniProt Accession Number of Target Protein:** P04156

**Published Application(s):** in vivo, inhibition, IP, SPR, WB, ELISA, FC

**Published Species Reactivity:** Bovine, Syrian Hamster, Human, Mouse

**Immunogen:** PrP deficient (Prnp0/0) mice were immunized with disaggregated PrP 27-30 incorporated into liposomes. The original antibody was generated by panning by panning against dispersed SHaPrP 27-30.

**Specificity:** This antibody recognises a discontinuous epitope and binds to residues 132-156 of PrP.

**Application Notes:** The specificity of the antibody to recombinant SHaPrP(90-231) and with PrP 27-30 rods was confirmed by ELISA. The epitope mapping of this antibody was done using a peptide-based ELISA. The Fab fragment reacted with cell surface MoPrPc as showed by flow cytometry. The antibody efficiently immunoprecipitated SHaPrPC from transfected CHO cells (Williamson et al. 1998; PMID: 9765500). The ability of of the Fab fragment to inhibit prion propagation in a cultured mouse neuroblastoma cell line infected with PrPSc (ScN2a) was tested. The Fab fragment was found to abolish prion replication and to clear pre-existing PrPSc, eliminating 50% of PrPSc from the cells within about 24 hours. Therefore, the antibody showed potential as a therapeutic agent. This antibody was used for detection of PrP with the surface of ScN2a cells by flow cytometry (Peretz et al., 2001; PMID: 11507642). The scFv version of the antibody was constructed and the specificity tested by ELISA. The binding affinity of the scFv fragment to PcP was measured by surface plasmon resonance (Kd= 10.1 nM). The scFv antibody gene was delivered to the brain by a recombinant adeno-associated virus, where it delayed the progression of the disease in a mouse model of TSE (Wuertzer et al., 2008; PMID: 18180775). The Fab fragment was conjugated to UltraSmall gold particles and used for immunolabelling for PrPC localization in mouse hippocampus (Mironov et al., 2003; PMID: 12904479). Immunofluorescence was performed on RK13 cells using this antibody (Spagnolli et al., 2021; PMID: 33437023).

**Antibody First Published in:** Williamson et al. Mapping the Prion Protein Using Recombinant Antibodies. *J Virol.* 1998 Nov; 72(11): 9413-9418. [PMID:9765500](#)

**Note on publication:** The paper describes the generation of a panel of monoclonal antibodies, which are used as probes for protein conformational study.

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer

storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.