

Mouse Prion PrPsc Monoclonal Antibody

Prion PrPsc, mAb 1.5D7

CATALOG # AAA14607	HOST Mouse	APPLICATIONS Immunohistochemistry, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

Prion PrPsc; Monoclonal Antibody; mAb 1.5D7; Spongiform encephalopathies; anti-Prion PrPsc antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	1.5D7
Purity/Purification	Protein G
Form/Format	0.2 ?m filtered in PBS+0.1%BSA+0.02%NaN3
Concentration	100 ug/mL (varies by lot)
Applicable Applications for anti-Prion PrPsc antibody	IHC (Immunohistochemistry), IHC (Immunohistochemistry), IA (Immunoassay), WB (Western Blot)
Application Notes	Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50. - WB: A reduced sample treatment and SDS-Page was used. The band size is 30 kDa (Ref.1). - IHC-P: Paraffin sections were deparaffinized, rehydrated and endogenous peroxidase was quenched using 0.3% H2O2 in methanol for 20 min. As positive control BSE infected brain tissue was used and as negative control non-diseased brain tissue (Ref.1). - Positive control: Prion diseased brain tissue; Negative control: non-diseased brain tissue.
Conjugate	None
Cross reactivity	Human, Mouse, Bovine, Hamster, Ovine.
Preparation and Storage	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.

IMAGES

Reference #	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Yes	•	•				•		•
No								
N.D.			•	•	•		•	

Application Data

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

ADDITIONAL INFORMATION

Related Product Information for anti-Prion PrPsc antibody	The monoclonal antibody 1.5D7 recognizes the disease associated isoform of the prion protein termed PrPSc. Prion diseases, also known as spongiform encephalopathies, are a group of neurodegenerative diseases that include BSE (bovine spongiform encephalopathy) in cattle, scrapie in sheep and CJD (Creutzfeldt-Jakob disease) in humans. The normal cellular form of the prion protein is denoted as PrPC and is a constitutively expressed glycosylphosphatidylinositol anchored protein that has been shown to play a role in myelin formation. PrPC has an unstructured N-terminal part and a C-terminal part consisting of three alpha -helices and two short beta strands. Refolding of the normal prion protein results in PrPSc, which has a tightly packed C-terminal part enriched in beta sheets which is insoluble and resistant to digestion by proteases. Prion diseases are characterized by the deposition of highly structured aggregates of PrPSc, astrocytosis, neuronal cell death and spongiform structures in the brain. These diseases can be sporadically (unknown cause), be inherited due to polymorphisms or mutations in the prion protein gene or be transmitted by an infectious particle which is believed to consist of PrPSc only. In order to study prion diseases the detection of PrPSc and the ability to discriminate between the normal and disease associated PrP is of pivotal importance. The monoclonal antibody 1.5D7 can be used for the specific identification and characterization of PrPSc in tissue sections by immunohistochemistry and PET-blot.
References	1. Cordes, H et al. Characterisation of new monoclonal antibodies reacting with prions from both human and animal brain tissues. J Immunol Method 2008, 337: 106. 2. Bergström, A et al; Short-term study of the uptake of PrPSc by the Peyers patches in hamsters after oral exposure to scrapie. J Comp Pathol 2006, 134: 126

NCBI AND UNIPROT INFORMATION

NCBI GI #	299267
NCBI Official Full Name	PrPSc=scrapie prion protein

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/prion-prpsc-antibody-clone-1-5d7-immunohistochemistry-immunohistochemistry-immunoassay-western-blot-elisa/14607>