

Product Datasheet

PrPSc Antibody (3F4) - Azide and BSA Free NBP2-81078-0.2mg

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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NBP2-81078-0.2mg

PrPSc Antibody (3F4) - Azide and BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.
Clonality	Monoclonal
Clone	3F4
Preservative	0.02% Proclin 300
Isotype	IgG1 Kappa
Purity	Protein A purified
Buffer	PBS

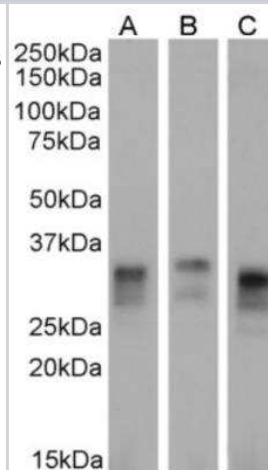
Product Description	
Description	Novus Biologicals Mouse PrPSc Antibody (3F4) - Azide and BSA Free (NBP2-81078) is a recombinant monoclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and IP. Anti-PrPSc Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	5621
Gene Symbol	PRNP
Species	Human, Hamster
Specificity/Sensitivity	The antibody binds specifically to prion, a misfolded protein that has the ability to enter healthy organisms and cause other misfolding of other proteins into their prion form.
Immunogen	Hamster 263K PrPs.

Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Application Notes	This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques. The antibody binds specifically to prion, a misfolded protein that has the ability to enter healthy organisms and cause other misfolding of other proteins into their prion form. This plays an essential role in the pathogenesis of certain neurodegenerative disorders such as Creutzfeldt-Jakob disease (CJD), Gerstmann-Strausler syndrome (GSS) and bovine spongiform encephalopathy (BSE). These disorders are characterised by an accumulation of prion proteins in the brain, which have a disrupted secondary structure.

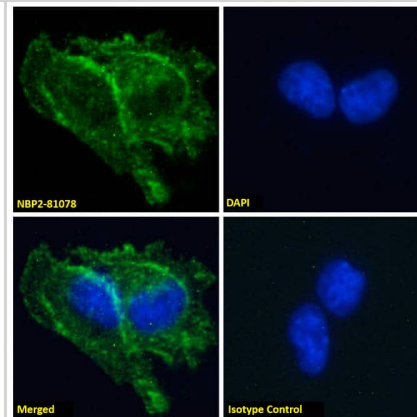


Images

Western Blot: PrPSc Antibody (3F4) [NBP2-81078] - Human brain cerebral cortex (A), cerebellum (B), and hippocampus (C) lysate samples (35ug protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric mouse IgG1 version of PrPSc antibody (3F4) [NBP2-81078]. Cerebral cortex and hippocampus samples were probed using 0.001 ug/ml of NBP2-81078, and cerebellum samples with 0.003 ug/ml of NBP2-81078, before detection using an anti-mouse secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The predicted running size for unmodified major Prion protein is 27.7 kDa though this protein has several glycosylated forms, may be lipidated, sumoylated and post-translationally cleaved to produce the mature form of the protein [Uniprot]. NBP2-81078 successfully detected major Prion protein in human brain cerebral cortex, cerebellum, and hippocampus lysates.



Immunocytochemistry /Immunofluorescence: PrPSc Antibody (3F4) - Azide and BSA Free [NBP2-81078] - Immunofluorescence analysis of paraformaldehyde fixed U251 cells on Shi-fix coverslips, permeabilized with 0.15% Triton and stained with NBP2-81078 at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom: NBP2-81078, DAPI, merged channels and an isotype control. The isotype control was stained with an unknown specificity antibody followed by Alexa Fluor 488 secondary antibody.



Publications

Zhao Y, Pogue AI, Alexandrov PN et al. Alteration of Biomolecular Conformation by Aluminum-Implications for Protein Misfolding Disease Molecules (Basel, Switzerland) 2022-08-11 [PMID: 36014365] (ICC/IF, Human)



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Products Related to NBP2-81078-0.2mg

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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