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Product datasheet for TA385989

Prion Mouse Monoclonal Antibody [Clone ID: 3F4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3F4
Applications:	ELISA, IHC, IP, WB
Reactivity:	Hamster, Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Hamster 263K PrPs.
Specificity:	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-Staussler 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.
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Note:	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.

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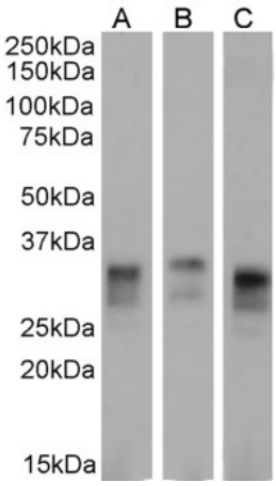
Product images:



Western Blot using anti-major Prion protein antibody 3F4 (TA385989) Human brain cerebral cortex (A), cerebellum (B), and hippocampus (C) lysate samples (35µg protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric mouse IgG1 version of 3F4 (TA385989). Cerebral cortex and hippocampus samples were probed using 0.001 µg/ml of TA385989, and cerebellum samples with 0.003 µg/ml of TA385989, 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 matrue form of the protein [Uniprot]. TA385989 successfully detected major Prion protein in human brain cerebral cortex, cerebellum, and hippocampus lysates.