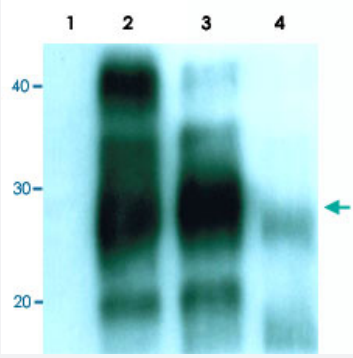
PRNP monoclonal antibody, clone EM-20

Catalog # MAB6472 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western Blotting analysis of Creutzfeld-Jakob disease (CJD) negative (Lane 1, 2) and CJD positive (Lane 3, 4) human brain material using PRNP monoclonal antibody, clone EM-20 (Cat # MAB6472). CJD positive patient has proteinase K resistent prion protein.
Lane 1, 4 : Samples with proteinase K treatment Lane 2, 3 : Samples without proteinase K treatment.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant PRNP.
Immunogen	Recombinant protein corresponding to human PRNP.
Host	Mouse
Reactivity	Human
Specificity	This antibody recognizes human prion protein (PrP). Diglycosylated form of PrP has ~40 KDa, mono glycosylated form ~30 KDa, and nonglycosylated form ~19-21 KDa. This antibody is suitable for disc rimination between normal cellular prion protein (PrPc) and its conformationally changed form (PrPS c) prionprotein.
Form	Liquid
Isotype	IgG2a
Recommend Usage	Western Blot (0.5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)

Storage Instruction	Store at 4°C. Do not freeze. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Gene Info — PRNP

Entrez GeneID	5621
Gene Name	PRNP
Gene Alias	ASCR, CD230, CJD, GSS, MGC26679, PRIP, PrP, PrP27-30, PrP33-35C, PrPc, prion
Gene Description	prion protein
Omim ID	123400 137440 176640 600072 603218 606688
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a membrane glycosylphosphatidylinositol-anchored glycoprot ein that tends to aggregate into rod-like structures. The encoded protein contains a highly unstabl e region of five tandem octapeptide repeats. This gene is found on chromosome 20, approximate ly 20 kbp upstream of a gene which encodes a biochemically and structurally similar protein to the one encoded by this gene. Mutations in the repeat region as well as elsewhere in this gene have been associated with Creutzfeldt-Jakob disease, fatal familial insomnia, Gerstmann-Straussler di sease, Huntington disease-like 1, and kuru. Alternative splicing results in multiple transcript varian ts encoding the same protein. [provided by RefSeq
Other Designations	CD230 antigen|OTTHUMP00000030162|OTTHUMP00000030163|major prion protein|p27-30|pri on protein PrP|prion-related protein

Publication Reference

- Binding of pro-prion to filamin A disrupts cytoskeleton and correlates with poor prognosis in pancreatic cancer.

  Li C, Yu S, Nakamura F, Yin S, Xu J, Petrolla AA, Singh N, Tartakoff A, Abbott DW, Xin W, Sy MS.

  The Journal of Clinical Investigation 2009 Aug; 119(9):2725.

- The cellular prion protein interacts with the tissue non-specific alkaline phosphatase in membrane microdomains of bioaminergic neuronal cells.

  Ermonval M, Baudry A, Baychelier F, Pradines E, Pietri M, Oda K, Schneider B, Mouillet-Richard S, Launay JM, Kellermann O.

  PLoS One 2009 Aug; 4(8):e6497.

- Glycosylation modification of human prion protein provokes apoptosis in HeLa cells in vitro.

  Yang Y, Chen L, Pan HZ, Kou Y, Xu CM.

  BMB Reports 2009 Jun; 42(6):331.

Pathway

- Prion diseases

Disease

- Alcoholism
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Aphasia
- Asthma
- Ataxia
- Cardiovascular Diseases
- Cognition
- Cognition Disorders
- Colorectal Neoplasms
- Creutzfeldt-Jakob Syndrome

- Deafness
- Dementia
- Diabetes Complications
- Disease Progression
- Down Syndrome
- Epilepsy
- Genetic Predisposition to Disease
- Hepatolenticular Degeneration
- Hereditary Motor and Sensory Neuropathies
- Huntington disease
- Iatrogenic Disease
- Intelligence Tests
- Kuru
- Learning
- Liver Diseases
- Memory
- Metabolic Syndrome X
- Multiple Sclerosis
- Multiple System Atrophy
- Muscle Rigidity
- Myoclonus
- Neoplasms
- Nervous System Diseases
- Neurodegenerative Diseases
- Neuropsychological Tests
- Obesity

- Osteoporosis
- Parkinson disease
- Pattern Recognition
- Prion Diseases
- Psychiatric Status Rating Scales
- Psychometrics
- Psychomotor Performance
- Schizophrenia
- Schizophrenic Psychology
- Sclerosis
- Sleep Initiation and Maintenance Disorders
- Sleep Stages
- Wakefulness
- Wechsler Scales
- Weight Gain
- Werner syndrome