amsbio

Name:Rabbit Monoclonal Antibody against PRNP (Clone EP1802Y) **Product Data Sheet**	**Catalog: TA300958**

Gene Name: Homo sapiens prion protein (PRNP), transcript variant 2
Clone Name: EP1802Y

GeneBank accession: NM_183079
Isotype: IgG

Gene Synonym: AltPrP; ASCR; CD230; CJD; GSS; KURU; p27-30; PRIP; PrP; PrP27-30; PrP33-35C; PrPc

Reactivity: Human, Mouse, Rat

Immunogen: A synthetic peptide corresponding to residues near the C-terminus of human Prp was used as an immunogen.

Components:
- 100uL Rabbit Monoclonal Antibody against PRNP (Clone EP1802Y) (TA300958)
- 1 vial of 20µg myc-DDK tagged PRNP HEK293T over-expression lysate lyophilized in RIPA buffer (LC403657) (Reconsitute into 20 µl of 1x SDS sample buffer before loading)

Concentration: 0.5~1.0 mg/ml (Lot Dependent)

Recommended application dilutions:
WB: 1:5000 - 1:10000
FC: 1:200
IHC-P: Use at an assay dependent dilution
ICC/IF: 1:100 - 1:250

Storage Condition:
Shipped at 4C. Upon delivery store at -20C. Dilute in PBS (pH7.3) before use. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.

Buffer:
PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%

Purification: Tissue culture supernatant

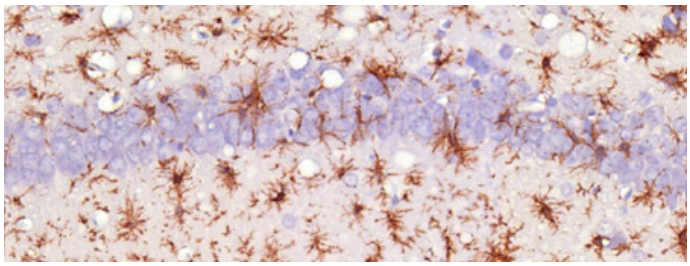
Background:
Prion diseases are transmissible neurodegenerative disorders which affect a range of mammalian species. In humans they can be inherited and sporadic as well as acquired by exposure to human prions. Prions appear to be composed principally of a conformational isomer of host-encoded prion protein and propagate by recruitment of cellular prion protein (1). The function of the cellular prion protein (PrP) is still poorly understood. It has been proposed that one unprecedented role for PrP is against Bax-mediated neuronal apoptosis. It has been shown that PrP potently inhibits Bax-induced cell death in human primary neurons (2). An impaired synaptic inhibition may be involved in the epileptiform activity seen in Creutzfeldt-Jakob and other neurodegenerative diseases and it is believed that loss of function of PrP may contribute to the early synaptic loss and neuronal degeneration seen in these diseases (3).

Validation Data:

Western Blot

Western blot ; Anti-Prion protein PrP antibody [EP1802Y] at 1/5000 dilution + Mouse Prion protein PrP full length protein at 0.01 µg.Secondary.Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (HRP), pre-adsorbed at 1/5000 dilution.developed using the ECL technique.Performed under reducing conditions.Exposure time : 10 seconds

IHC data



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prion protein PrP antibody [EP1802Y]; Immunohistochemical analysis of Prion-infected mouse brain tissue, staining Prion protein PrP with ab52604. Antigen retrieval was performed by heat mediation in a citrate buffer (pH 6) before incubating with primary antibody (1/7000) overnight at 4°C. Staining was detected using DAB.

Related Product:

TrueORF cDNA clones
VERIFY Tagged Antigen lysates
HuSH-29 shRNA
Western Blot reagents
Anti-myc/DDK tag antibodies

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.

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