Datasheet for ABIN349704

anti-PRNP antibody

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Overview

Quantity:	0.1 mg
Target:	PRNP
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PRNP antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant human prion protein
Clone:	EM-20
Isotype:	IgG2a
Specificity:	The mouse monoclonal antibody EM-20 recognizes human prion protein (PrP). Diglycosylated form of PrP has ~ 40 kDa, monoglycosylated form ~ 30 kDa, and nonglycosylated form ~ 19-21 kDa. This antibody is suitable for discrimination between normal cellular prion protein (PrPc) and its conformationally changed form (PrPSc) prion protein.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	PRNP
Abstract:	PRNP Products
Background:	Prion protein,CD230 / human prion protein (PrP), also known as PRNP, is a ubiquitously expressed GPI-anchored cell surface glycoprotein associating with lipid raft components and functioning as a signaling molecule. CD230 / PrP plays a role in apoptosis in a cell context-dependent manner, is involved in proliferation of epithelial cells and in distribution of junction-associated proteins in human enterocytes. Conversion of this normal cellular prion protein (PrPc) into an abnormal conformer (PrPSc) is the crucial step associated with triggering the pathogenesis of the prion neurodegenerative disorders, such as the Creutzfeld-Jakob disease (CJD). Whereas PrPc is rich in alpha-helices, the PrPSc form has higher content of beta-sheets and is resistant to proteinase K.,Major prion protein, PrP, PrP27-30, PrP33-35C, ASCR, CD230, PRNP, CJD, KURU, PRIP, PRPC
Gene ID:	5621
UniProt:	P04156
Pathways:	Transition Metal Ion Homeostasis, Activated T Cell Proliferation

Application Details

Application Notes:	Western blotting: Recommended dilution: 0.5 µg/mL, non-reducing conditions are essential.
Restrictions:	For Research Use only

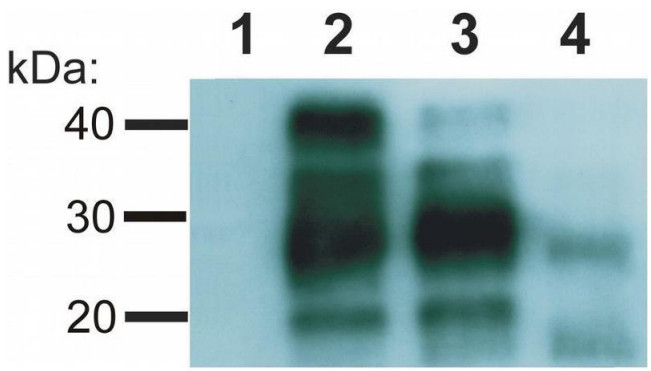
Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:	Dvorakova, Vranac, Janouskova, ?ernilec, Koren, Lukan, Nováková, Matej, Holada, ?urin Šerbec: "Detection of the GPI-anchorless prion protein fragment PrP226* in human brain." in: **BMC neurology**, Vol. 13, pp. 126, (2013) (PubMed).

Images



Western Blotting

Image 1. Western blotting analysis of Creutzfeld-Jakob disease (CJD) negative (lane 1, 2) and CJD positive (lane 3, 4) human brain material using anti-PrP antibody (clone EM-20). 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