

30-1417: Anti-CD230 / Human Prion Protein (PrP) Monoclonal Antibody (Clone:EM-20)

Clonality :	Monoclonal
Clone Name :	EM-20
Application :	WB
Reactivity :	Human
Gene :	PRNP
Gene ID :	5621
Uniprot ID :	P04156
Format :	Purified
Alternative Name :	PRNP,ALTPRP,PRIP,PRP
Isotype :	Mouse IgG2a
Immunogen Information :	Recombinant human prion protein

Description

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 (PrP^c) into an abnormal conformer (PrP^{Sc}) is the crucial step associated with triggering the pathogenesis of the prion neurodegenerative disorders, such as the Creutzfeld-Jakob disease (CJD). Whereas PrP^c is rich in alpha-helices, the PrP^{Sc} form has higher content of beta-sheets and is resistant to proteinase K.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Western Blotting *Recommended dilution: 0.5 µg/ml*

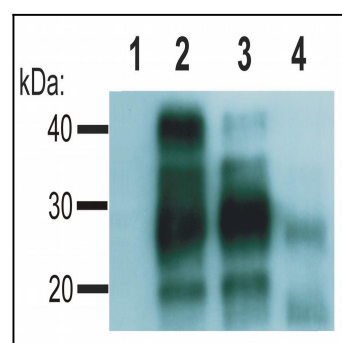


Figure 1: Western blotting analysis of Creutzfeld-Jakob disease (CJD) negative (. Lane 2) and CJD positive (. Lane 3, 4) human brain material using anti-PrP antibody (clone EM-20). CJD positive patient has proteinase K resistant prion protein. Lane 4: Samples with proteinase K treatment . Lane 2, 3: Samples without proteinase K treatment