

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	EM-20
<b>Application :</b>	WB
<b>Reactivity :</b>	Human
<b>Gene :</b>	PRNP
<b>Gene ID :</b>	5621
<b>Uniprot ID :</b>	P04156
<b>Format :</b>	Purified
<b>Alternative Name :</b>	PRNP,ALTPRP,PRIP,PRP
<b>Isotype :</b>	Mouse IgG2a
<b>Immunogen Information :</b>	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<sup>c</sup>) into an abnormal conformer (PrP<sup>Sc</sup>) is the crucial step associated with triggering the pathogenesis of the prion neurodegenerative disorders, such as the Creutzfeldt-Jakob disease (CJD). Whereas PrP<sup>c</sup> is rich in alpha-helices, the PrP<sup>Sc</sup> form has higher content of beta-sheets and is resistant to proteinase K.

### Product Info

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

### Application Note

**Western Blotting** *Recommended dilution: 0.5 µg/ml*

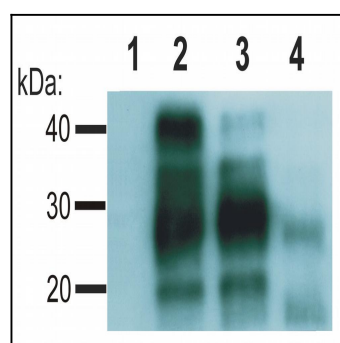


Figure 1: Western blotting analysis of Creutzfeldt-Jakob disease (CJD) negative (. Lane 2) and CJD positive (. Lane 3, 4) human brain material using anti-PrP antibody (clone EM-20). CJD positive patient has proteinase K resistant prion protein. Lane 4: Samples with proteinase K treatment . Lane 2, 3: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