

30-2620: Anti-Human CD230 / Prion Antibody (Clone : EM-21)

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| Clonality : | Monoclonal |
| Clone Name : | EM-21 |
| Application : | WB |
| Reactivity : | Human |
| Gene : | PRNP |
| Gene ID : | 5621 |
| Format : | Purified |
| Alternative Name : | Major prion protein, PrP, PrP27-30, PrP33-35C, ASCR, CD230, PRNP, CJD, KURU, PRIP, PRPC, prion protein |
| 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 Creutzfeldt-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.

Specificity : The mouse monoclonal antibody EM-21 recognizes human prion protein (PrP). Diglycosylated form of PrP has ~ 40 kDa, monoglycosylated form ~ 30 kDa, and nonglycosylated form ~ 19-21 kDa.

Product Info

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| Amount : | 0.1 mg |
| Purification : | Purified by protein-A affinity chromatography |
| Content : | 1 mg/ml Formulation : Phosphate buffered saline (PBS) solution with 15 mM sodium azide |
| Storage condition : | Store at 2-8°C. Do not freeze. |