

Anti-PRNP Reference Antibody (Medimmune patent anti-PRNP)

Catalog # APR11482

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P04156
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	27661

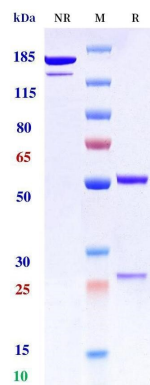
Additional Information

Target/Specificity	PRNP
Expression system	CHO

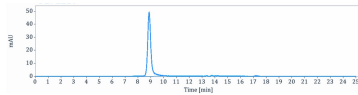
Protein Information

Name	PRNP
Synonyms	ALTPRP, PRIP, PRP
Function	Its primary physiological function is unclear. May play a role in neuronal development and synaptic plasticity. May be required for neuronal myelin sheath maintenance. May promote myelin homeostasis through acting as an agonist for ADGRG6 receptor. May play a role in iron uptake and iron homeostasis. Soluble oligomers are toxic to cultured neuroblastoma cells and induce apoptosis (in vitro) (By similarity). Association with GPC1 (via its heparan sulfate chains) targets PRNP to lipid rafts. Also provides Cu(2+) or Zn(2+) for the ascorbate-mediated GPC1 deaminase degradation of its heparan sulfate side chains (By similarity).
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor. Golgi apparatus {ECO:0000250 UniProtKB:P04925}. Note=Targeted to lipid rafts via association with the heparan sulfate chains of GPC1. Colocates, in the presence of Cu(2+), to vesicles in para- and perinuclear regions, where both proteins undergo internalization. Heparin displaces PRNP from lipid rafts and promotes endocytosis.

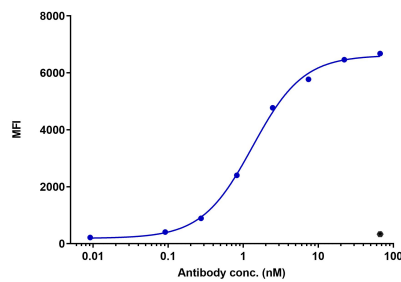
Images



Anti-PRNP Reference Antibody (Medimmune patent anti-PRNP) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-PRNP Reference Antibody (Medimmune patent anti-PRNP) is 98.88%, determined by SEC-HPLC.



CCRF-CEM cells were stained with Medimmune patent anti-PRNP and negative control protein respectively, washed and then followed by PE and analyzed with FACS, with the EC50 is 1.328 nM.

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