PRNP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRNP, Polyclonal Antibody
Full Product Name	PRNP Antibody, Biotin conjugated
Product Gene Name	anti-PRNP antibody
Product Synonym Names	Major prion protein; PrP; ASCR; PrP27-30; PrP33-35C; CD_antigen: CD230; PRNP; ALTPRP; PRIP; PRP
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: PRNP (MBS7105053) Biotin Conjugated Antibody: PRNP (MBS7105056)
Molecular Weight	8,691 Da
OMIM	M13899 mRNA
3D Structure	ModBase 3D Structure for P04156
Immunogen	Recombinant Human Major prion protein (23-64AA)
Conjugation	Biotin
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-PRNP antibody	Neuroscience; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PRNP antibody	ELISA (EIA)
Related Product Information for anti-PRNP antibody	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 a 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).
Other Notes	Small volumes of anti-PRNP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PRNP purchase	MBS7105056 is an antibody targeting PRNP. Also known as PRNP Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRNP. It may not necessarily be applicable to this product.

NCBI GI #	4506113
NCBI GeneID	5621
NCBI Accession #	NP_000302.1
UniProt Primary Accession #	P04156
UniProt Secondary Accession #	O60489; P78446; Q15216; Q15221; Q27H91; Q5QPB4; Q8TBG0; Q96E70; Q9UP19
UniProt Related Accession #	P04156; F7VJQ1
GenBank Nucleotide #	NM_000311.4
NCBI Official Full Name	major prion protein Prp preproprotein
NCBI Official Synonym Full Names	prion protein
NCBI Official Symbol	PRNP
NCBI Official Synonym Symbols	CJD; GSS; PrP; ASCR; KURU; PRIP; PrPc; CD230; AltPrP; p27-30; PrP27-30; PrP33-35C
UniProt Protein Name	Major prion protein
UniProt Synonym Protein Names	ASCR; PrP27-30; PrP33-35C; CD_antigen: CD230
Protein Family	Major prion protein
UniProt Gene Name	PRNP
UniProt Synonym Gene Names	ALTPRP; PRIP; PRP; PrP
NCBI Protein Information	major prion protein; alternative prion protein
NCBI Summary for PRNP	The protein encoded by this gene is a membrane glycosylphosphatidylinositol-anchored glycoprotein that tends to aggregate into rod-like structures. The encoded protein contains a highly unstable region of five tandem octapeptide repeats. This gene is found on chromosome 20, approximately 20 kbp upstream of a gene which encodes a biochemically and structurally similar protein to the one encoded by this gene. Mutations in the repeat region as well as elsewhere in this gene have been associated with Creutzfeldt-Jakob disease, fatal familial insomnia, Gerstmann-Straussler disease, Huntington disease-like 1, and kuru. An overlapping open reading frame has been found for this gene that encodes a smaller, structurally unrelated protein, AltPrp. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]
UniProt Comments for PRNP	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 a 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) (). Association with GPC1 (via its heparan sulfate chains) targets PRNP to lipid rafts. Also provides Cu2+ or ZN2+ for the ascorbate-mediated GPC1 deaminase degradation of its heparan sulfate side chains ().
Research Articles on PRNP	**1.** Here, we provide an overview of the increasingly multifaceted picture of prion protein proteolysis and shed light on physiological and pathological roles associated with these cleavages.
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