PRNP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRNP, Polyclonal Antibody
Full Product Name	PRNP Rabbit pAb
Product Gene Name	anti-PRNP antibody
Product Synonym Names	CJD; GSS; PrP; ASCR; KURU; PRIP; PrPc; CD230; AltPrP; p27-30; PrP27-30; PrP33-35C
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	20-30kDa
OMIM	123400
3D Structure	ModBase 3D Structure for P04156
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 23-230 of human PRNP (NP_001073592.1).
Cellular Localization	Amyloid, Cell Membrane, Cytoplasm, Golgi Apparatus, Membrane, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PRNP antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-PRNP antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
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). 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.
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	MBS8545010 is an antibody targeting PRNP. Also known as PRNP Rabbit pAb. Reactive in Human, Mouse, Rat. 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 Related Accession #	P04156; F7VJQ1
GenBank Nucleotide #	NP_000302.1
NCBI Official Full Name	major prion protein preproprotein Prp
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
Protein Family	Major prion protein
UniProt Gene Name	PRNP
UniProt Synonym Gene Names	PRIP; PRP; PrP
UniProt Entry Name	PRIO_HUMAN
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]
Research Articles on PRNP	**1.** The study suggests that apart from traditional clinical features, the insomnia is not a rare early symptom in phenotype of E200K genetic Creutzfeldt-Jakob disease based on early thalamic involvement.
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