

# Product Datasheet

## Myelin PLP Antibody - BSA Free NBP1-87781

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-87781**

Myelin PLP Antibody - BSA Free

Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

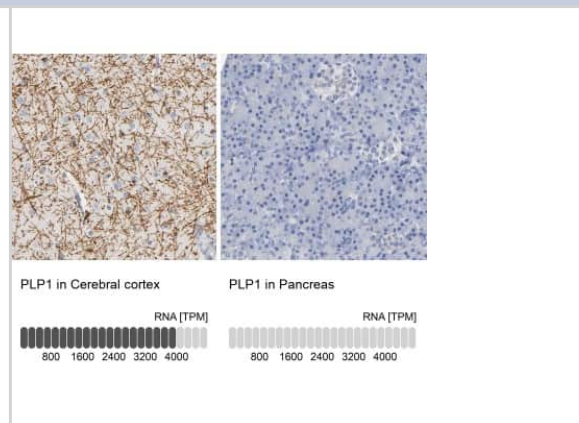
Product Description	
<b>Description</b>	Novus Biologicals Rabbit Myelin PLP Antibody - BSA Free (NBP1-87781) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Myelin PLP Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	5354
<b>Gene Symbol</b>	PLP1
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 26209807).
<b>Marker</b>	Oligodendrocyte Marker
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: LLLAEGFYTTGAVRQIFGDYKTTICGKGLSATVTGGQKGRGSRGQHQAHSLE VCHCLGKWLGHDPDKFVGI

Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot Reactivity reported in literature (PMID: 26209807), Immunohistochemistry 1:500 - 1:1000, Immunohistochemistry-Paraffin 1:500 - 1:1000
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

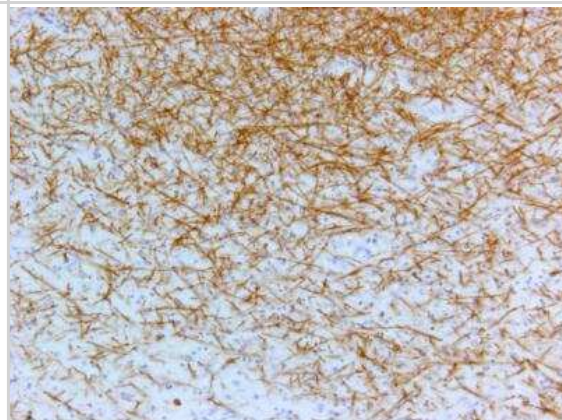


## Images

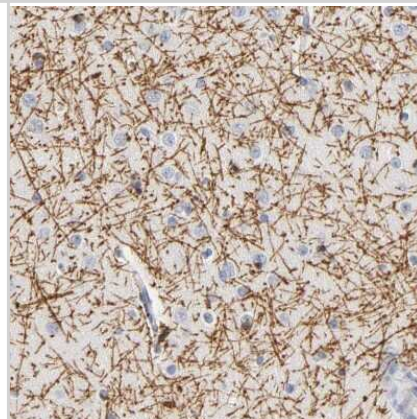
Immunohistochemistry-Paraffin: Myelin PLP Antibody [NBP1-87781] - Staining in human cerebral cortex and pancreas tissues using anti-PLP1 antibody. Corresponding PLP1 RNA-seq data are presented for the same tissues.



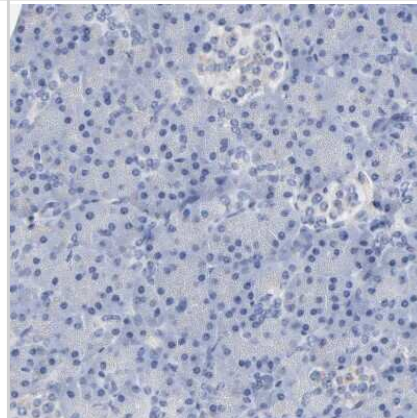
Immunohistochemistry-Paraffin: Myelin PLP Antibody [NBP1-87781] - Border of a demyelinated lesion. Image submitted by a verified customer review.



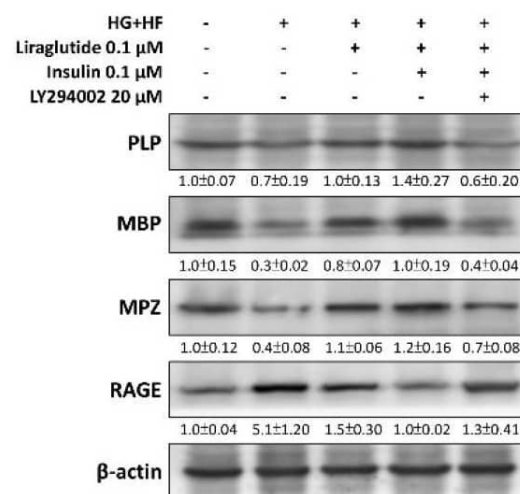
Immunohistochemistry-Paraffin: Myelin PLP Antibody [NBP1-87781] - Staining of human cerebral cortex shows high expression.



Immunohistochemistry-Paraffin: Myelin PLP Antibody [NBP1-87781] - Staining of human pancreas shows low expression as expected.



Liraglutide enhances the normal physiological function of SCs via insulin-Akt signaling. (a) Western blot analysis of Ser473-phosphorylated Akt confirmed that Liraglutide and insulin reverse the glucolipototoxicity-induced insulin signaling blockade. (b) MTT assays showed that the protective effect of Liraglutide and insulin were inhibited by co-treatment with 20  $\mu$ M LY294002. (c) mRNA levels of neurotrophic factors, including CNTF, NGF, NT-3, and BDNF, were measured by qPCR. Liraglutide and insulin significantly elevated the mRNA levels of neurotrophic factors suppressed by glucolipototoxicity. However, LY294002 counteracted the effects of Liraglutide and insulin. (d) Western blots demonstrated that Liraglutide and insulin show efficacy in improving SC synthesis of essential myelin components and decrease the expression of the demyelination marker RAGE. Similarly, LY294002 blocked the effects of Liraglutide and insulin in promoting myelination in RSC96 SCs. All values are presented as the mean  $\pm$  SEM. Significant difference was determined using multiple comparisons of Dunnett's posthoc test for \*  $p < 0.05$  and \*\*  $p < 0.01$ . N.S., not significant. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36291547>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Kornelius E, Tsou SH, Chang CC et al. Liraglutide Attenuates Glucolipototoxicity-Induced RSC96 Schwann Cells' Inflammation and Dysfunction Biomolecules 2022-09-21 [PMID: 36291547] (Western Blot, Mouse)

Cifuentes-Diaz C, Canali G, Garcia M et al. Differential impacts of Cntnap2 heterozygosity and Cntnap2 null homozygosity on axon and myelinated fiber development in mouse Frontiers in Neuroscience 2023-01-30 [PMID: 36793543] (Western Blot, Mouse)

M Horiuchi, Y Suzuki-Hor, T Akiyama, A Itoh, D Pleasure, E Carstens, T Itoh Differing intrinsic biological properties between forebrain and spinal oligodendroglial lineage cells J. Neurochem., 2017-06-09;0(0):. 2017-06-09 [PMID: 28512742]

Gomez-Pinedo U, Matlas-Guiu JA, Torre-Fuentes L et al. Variant rs4149584 (R92Q) of the TNFRSF1A gene in patients with familial multiple sclerosis Neurologia (Barcelona, Spain) 2022-08-10 [PMID: 35963536] (ICC/IF, Human)

Creighton BA, Afriyie S, Ajit D Et al. Giant ankyrin-B mediates transduction of axon guidance and collateral branch pruning factor sema 3A eLife 2021-11-23 [PMID: 34812142]

Li Q, Tsuneki M, Krauthammer M et al. Modulation of Sox10, HIF-1a, Survivin, and YAP by Minocycline in the Treatment of Neurodevelopmental Handicaps following Hypoxic Insult. Am. J. Pathol. 2015-07-22 [PMID: 26209807] (WB, Mouse)



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### **Products Related to NBP1-87781**

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NBP1-87781PEP	Myelin PLP Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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