Datasheet

Anti-PLP Clone PLPC1

Product Name	Anti Human PLP C1
Catalogue Number	PLPC1
Clone, Isotype	PLPC1, IgG2a
Format	IgG
Tested Applications	FC, WB, IF, IHC, ICC

Description:
Proteolipid protein (PLP) is the major myelin protein of the CNS and plays an important role in the formation and maintenance of myelin. Mutations in PLP gene can lead to dysmyelinating diseases. Clone PLPC1 is used in the detection of PLP by various analysis methods.

Product Details:

Form in stock: IgG, purified – 1.0 mg/mL. Also available as unpurified supernatant.

Host: Mouse

Specificity: Synthetic peptide GRGTKF that recognizes the C terminal region of myelin proteolipid protein.

Human Histology positive control: Brain

Fusion partner: Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.

Storage: Store at +4°C or -20°C. Avoid repeated freezing and thawing.

Shelf life: 18 months from date of dispatch.

Regulatory/ Restrictions: For research purposes only.

Applications	Suggested Dilution
Flow Cytometry	75µg/ml[1]
Western Blot	1:250 [24]
Immunofluorescence	Assay dependent
Immunohistochemistry	1:200-1:3000 [7-22]
Immunocytochemistry	1:1000 - 1:1500 [22,23]

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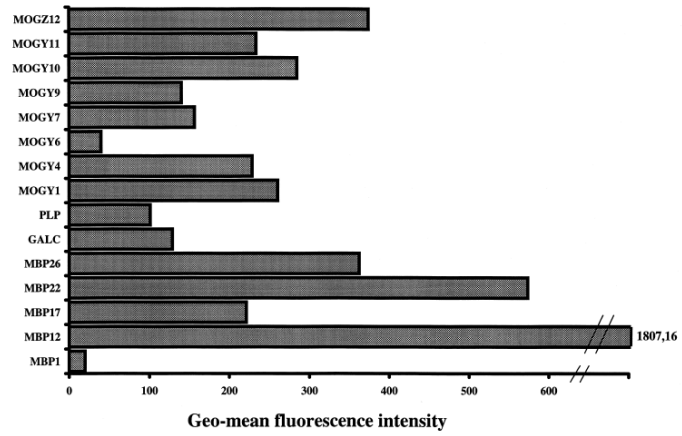
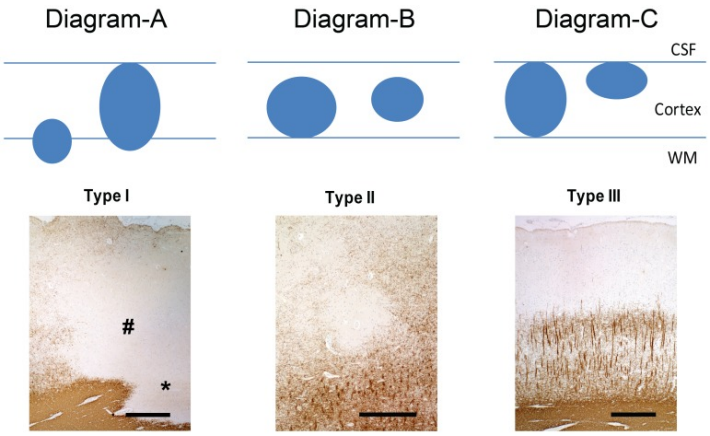
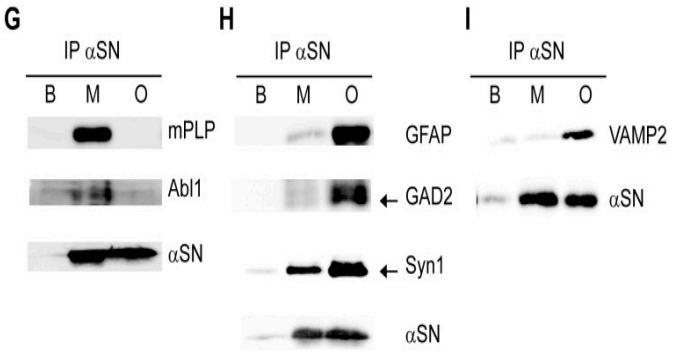
Applications:



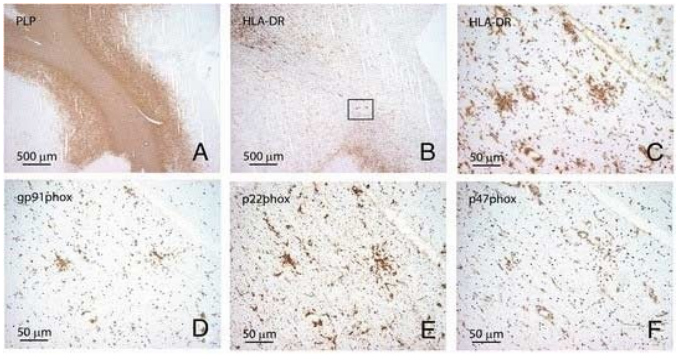
Clone PLPC1 used to detect mouse myelin binding via Flow Cytometry
Image caption: Incubation of mouse myelin with mAb against myelin components. The binding is visualized by incubating the mAb-myelin with fluorescent labelled conjugates. The fluorescence intensity (FL2) of the myelin was measured using FACScan flow Cytometry. The data are presented as the geo-mean of fluorescence of one representative experiment (n=4). (Van der Goesa, et al.)
Dilution used: 75µg/ml



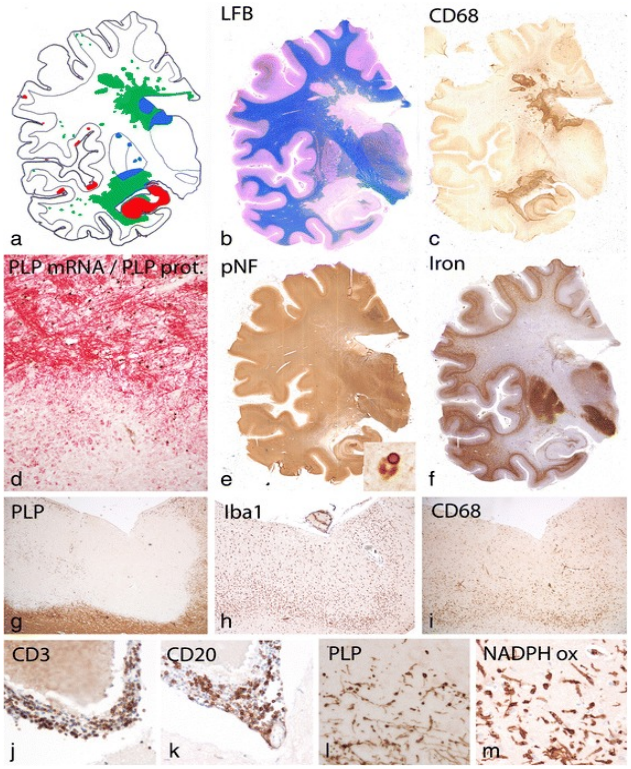
Clone PLPC1 used for the detection of PLP in brain tissue by **IHC-P**
Image caption: (**A**) Type-I NL with demyelination of the whole width of the cortex (#) and adjacent WM (*). (**B**) Type-II intracortical lesion evolving around a vessel. (**C**) Type-III subpial NL. Demyelination spreads from the pial surface until cortical layer 3. (Yao, B et al.)
Dilution used: 1:1000



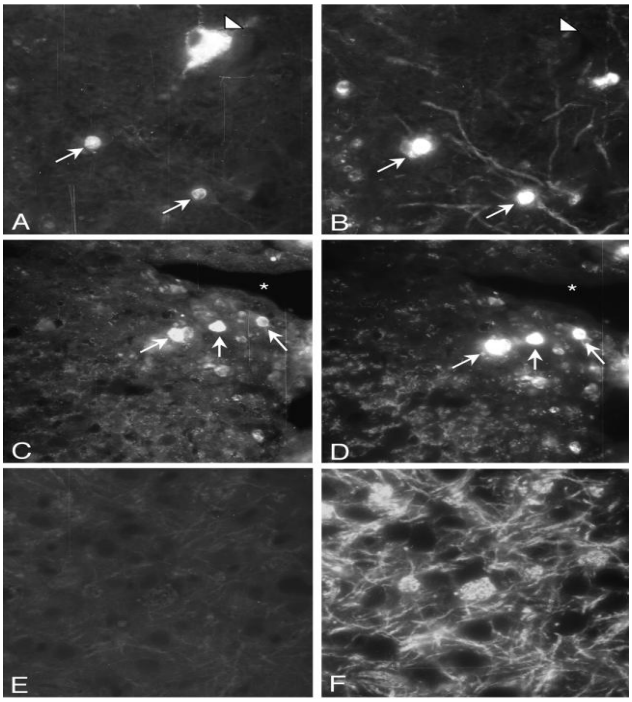
Clone PLPC1 used for the detection of PLP in brain tissue by **Western Blot**
Image caption: ... human (G-I) brain extracts were analyzed by immunoblotting using antibodies against antigens selected among the monomer and oligomer binding proteins... (Betzer, C et al.)



Clone PLPC1 used for the detection of PLP in brain tissue by **IHC-P**
Image caption: ... in the absence of apparent myelin loss (**A**, **E**: proteolipid protein) preactive lesions are defined as circumscribed nodules of activated microglia expressing HLA-DR (**B**, **C**) and CD68 (**D**)...
Dilution used: 1:500
(Van Horssen, J et al.)



Clone PLPC1 used for the detection of PLP in brain tissue by **ICC**
Image caption: ... l: The active lesion edge of the cortical lesions contains numerous macrophages with PLP reactive myelin degradation products... (Höftberger, R et al.)
Dilution used: 1:1000



Clone PLPC1 used for the detection of PLP in brain tissue by **IF**

Image caption: ... PLP (B, D, and F; TRITC) in the ventral cervical spinal cords of *me/me* (A to D) mice 5 days after inoculation with TMEV... (Massa, P. T et al.)

References:

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