

Online Resource 3. Examples of distinct white matter phenotypes of MS patients. Representative examples of MS white matter stainings according to Kuhlmann et al., Acta Neuropathol (2017) [29]. We used myelin oligodendrocyte glycoprotein (MOG), HLA class II (HLA-II) and CD68, expressed by macrophages and microglia, as markers to discriminate normal appearing white matter (NAWM: HLA-II\*'-Myelin\*CD68\*'-), diffuse white matter abnormalities (DWMA: HLA-II\*\*Myelin\*CD68\*), active lesions (AL: HLA-II\*\*Myelin\*-CD68\*), mixed active/inactive lesions (mAIL; hypercellular rim: HLA-II\*\*Myelin\*-CD68\*+ and hypocellular center: HLA-II\*-Myelin\*-CD68\*-) and inactive lesions (IL: hypocellular: HLA-II\*-Myelin\*-CD68\*-) in consecutive 8 μm sections of snap-frozen MS brain tissues. Scale bar is indicated in top left image.