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Supplementary Materials for

Apolipoprotein E Controls ATP-Binding Cassette Transporters in the Ischemic Brain

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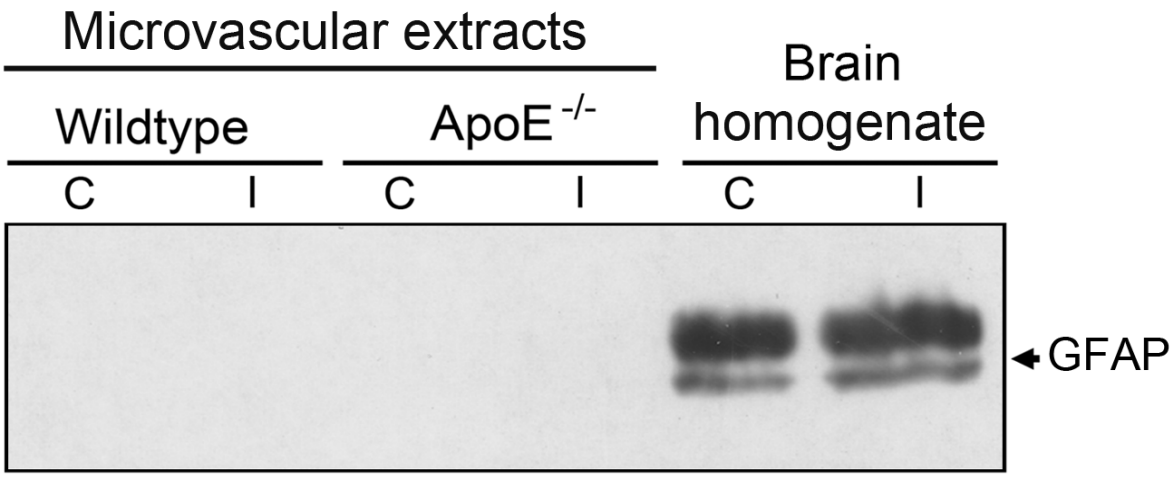
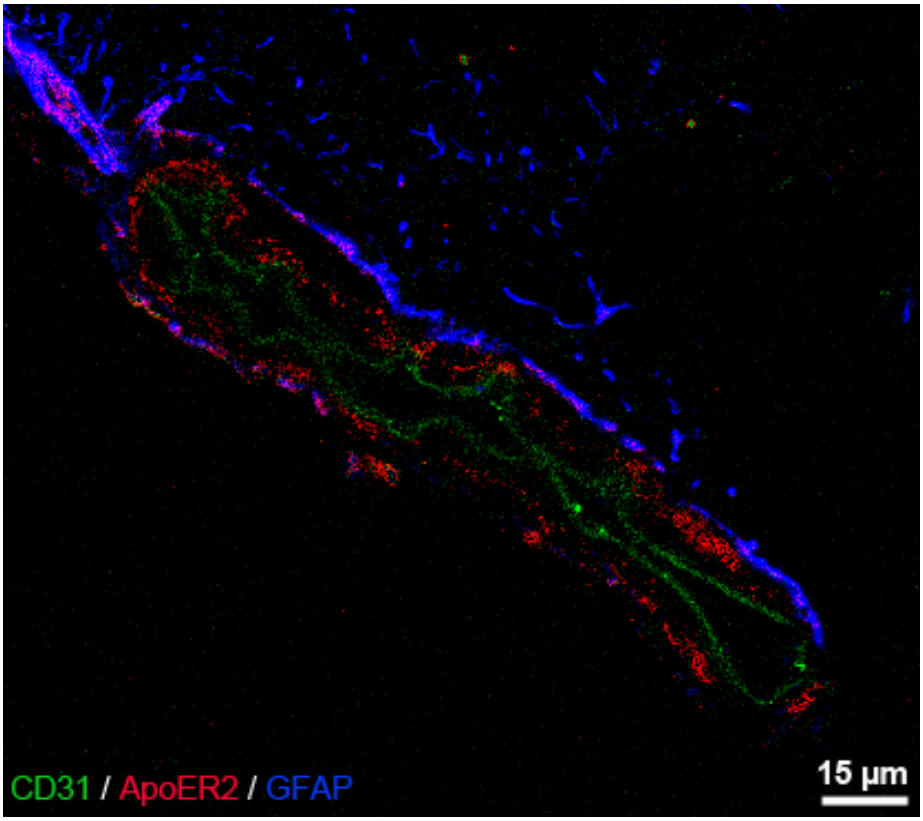


Supplementary Fig. 1. Microvascular brain extracts are not contaminated by astrocytic endfeet. Western blot analysis of the marker for astrocytic endfeet GFAP using brain microvascular extracts obtained from wildtype and ApoE$^{-/-}$ mice as well as total brain homogenates from wildtype mice, showing that GFAP is absent both in non-ischemic and ischemic microvessels. On the other hand, note the presence of GFAP in total brain homogenates, which served as positive control. C, contralateral hemisphere; I, ischemic hemisphere.



Supplementary Fig. 2. ApoER2 is localized mainly on the abluminal surface of nonischemic cerebral microvessels. Immunohistochemical analysis of a brain capillary in the non-ischemic parietal cortex of a wildtype mouse, showing that ApoER2 (red fluorescence) is localized between the luminal $CD31^+$ endothelial membrane (green fluorescence) and $GFAP^+$ astrocytic endfeet (blue fluorescence). The distribution of ApoER2 did not differ from ischemic cerebral microvessels (see **Fig. 2B**). Bar, 15 µm.

Supplementary Table 1. Primers used for RT-PCR analysis.

Gene	GenBank official name	GenBank accession number	Primers
abcb1	Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 1B	NM_011075.2	fwd: CACAGAAAGCAAGACCAAGAGA rev: TTTAGATTTAGGATCCGCCAAA TM: 5'FAM-GCACATCTTCATCCACAGCCTCTT-3'BHQ
abcc1	Mus musculus ATP-binding cassette, subfamily C (CFTR/MRP), member 1	NM_008576.2	fwd: GAACTTGGACCCTTTCAGTCAG rev: GACACAAAGCCCTTTAGGTGAG TM: 5'FAM-TCTGATGAAGAAGTCTGGATGGCC-3'BHQ