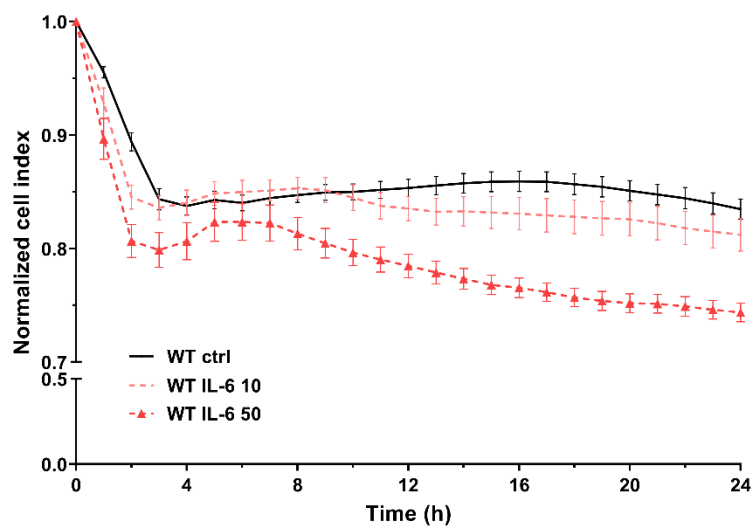


Additional file 1

Role of interleukin-6 and interleukin-10 in morphological and functional changes of the blood-brain barrier in hypertriglyceridemia

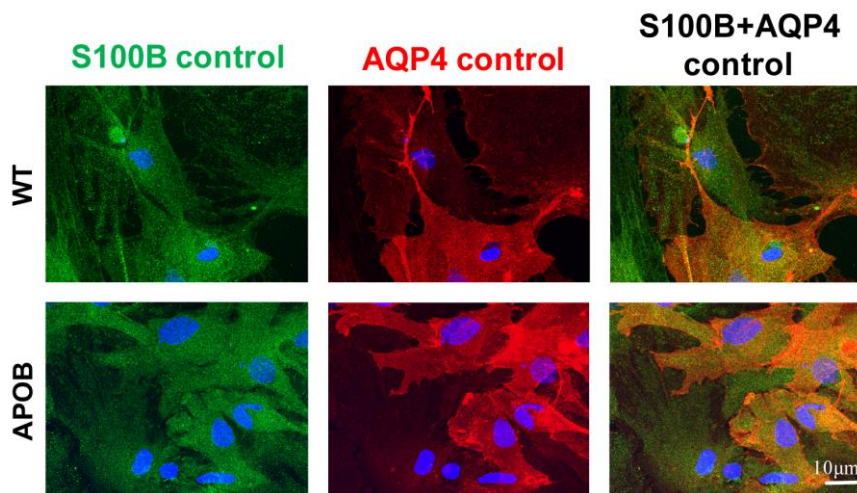
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Figure S1



Concentration and time dependent effects of IL-6 on wild type primary mouse brain endothelial cell viability measured by impedance kinetics.

Figure S2



Immunostaining for astroglial cell markers S100B and aquaporin-4 (AQP4) in cultured glial cells. The cells were isolated from wild type (WT) and apolipoprotein B-100 (APOB-100) transgenic mice. AQP4 staining labels astroglial cells positive for S100B. Scale bar: 10 μm.

Table S1. Gene-specific primers for qPCR analysis

	gene	forward primer	reverse primer
1	<i>Gapdh</i>	GGGTTCTATAAATACGGACTGC	CCATTTTGTCTACGGGACGA
2	<i>Actb</i>	CTAAGGCCAACCGTGAAAAG	ACCAGAGGCATACAGGGACA
5	<i>Il6</i>	GCTACCAAAGTGGATATAATCAGGA	CCAGGTAGCTATGGTACTCCAGAA
6	<i>Il10</i>	CAGAGCCACATGCTCCTAGA	TGTCCAGCTGGTCCCTTTGTT

Table S2. List of antibodies used in this study

A: Alexa Fluor

Antibody name	Vendor	Catalogue number	Host organism	Concentrations	Antibody registry ID
Fluorescent immunostaining - Glia cultures (culture purity assessment)					
anti-GFAP	Sigma	G3893	mouse	12.17 µg/ml	AB_477010
anti-Iba1	Abcam	ab5076	goat	0.5 µg/ml	AB_2224402
A488 anti-mouse	Invitrogen	A21202	donkey	1 µg/ml	AB_141607
A488 anti-goat	Invitrogen	A11055	donkey	1 µg/ml	AB_2534102
Dylight 549 anti-mouse	Jackson ImmunoResearch	115-505-003	goat	0.94 µg/ml	-
Fluorescent immunostaining - Cell cultures					
anti-claudin	Sigma	SAB4502981	rabbit	0.625 µg/ml	AB_10753223
anti-occludin	Invitrogen	71-1500	rabbit	0.2 µg/ml	AB_2533977
anti-ZO1	Invitrogen	61-7300	rabbit	0.25 µg/ml	AB_2533938
anti-Pgp	Calbiochem	517310	mouse	0.4 µg/ml	AB_564389
anti-Aqp4	Merck	AB3594	rabbit	0.4 µg/ml	AB_91530
anti-Iba1	Abcam	ab5076	goat	0.5 µg/ml	AB_2224402
anti-GFAP	Sigma	G3893	mouse	3.65 µg/ml	AB_477010
anti-S100B	Synaptic System	287011	mouse	0.6 µg/ml	AB_2814881
A594 anti-rabbit	Invitrogen	A21207	donkey	1 µg/ml	AB_141637
A488 anti-mouse	Invitrogen	A11029	goat	1 µg/ml	AB_2534088
Cy3-anti-rabbit	Sigma	C2306	sheep	2.5 µg/ml	AB_258792
A488 anti-goat	Invitrogen	A11055	donkey	1 µg/ml	AB_2534102
DyLight 549 anti-mouse	Jackson ImmunoResearch	115-505-003	goat	0.94 µg/ml	-