

Figure S1: NFL-staining in NB-cells. Cells were treated with an Alexa-fluor488-coupled antibody against NFL (green) and the nuclei were stained with DAPI (blue). Shown is one representative image. Bar: 10 μ M

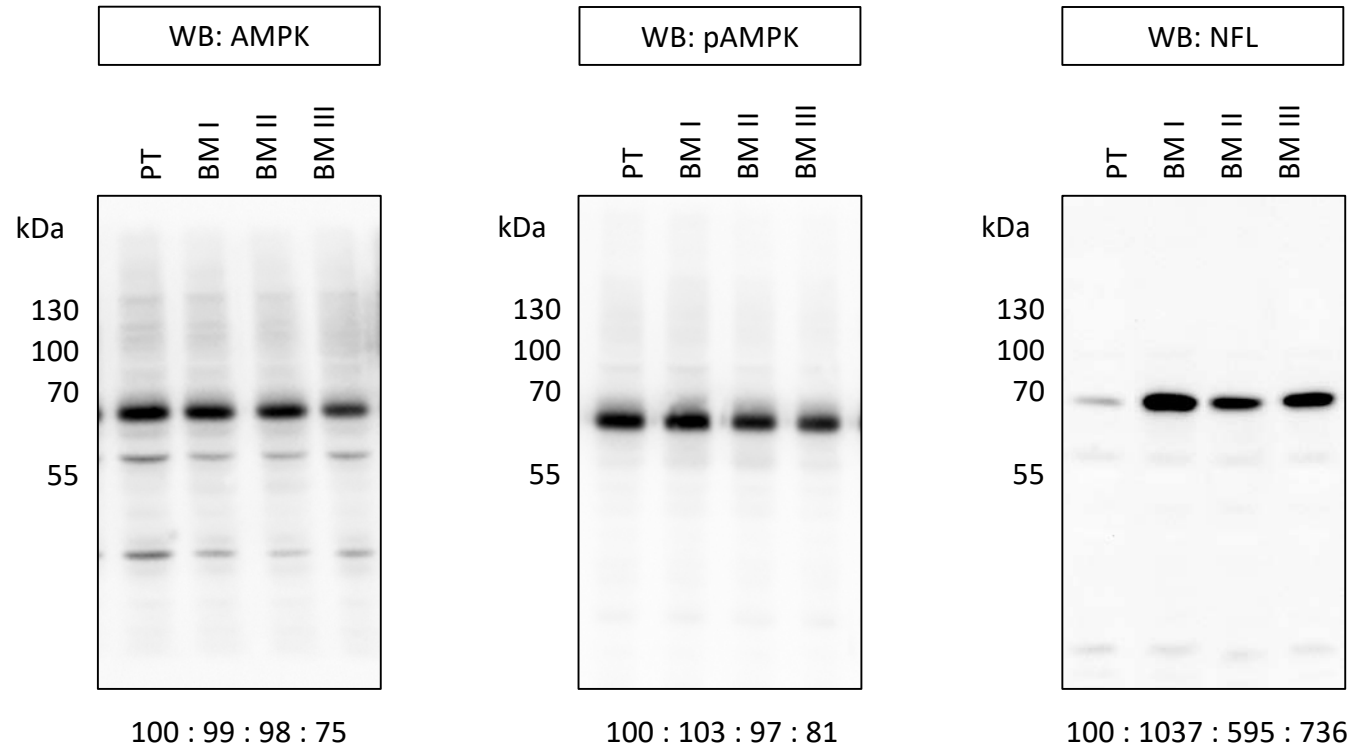


Figure S2. Original Western-blot. 20 μ g protein extracts from NB cells were probed against AMPK, pAMPK or NFL by Western-blotting. Band intensities were measured by Image J, and the intensities obtained for the PT signals were set to 100%. Show is one representative Western-blot each out of three.

Pathway	PT vs BM I	PT vs BM II	PT vs BM III
MAPK MAPK signaling pathway (Homo sapiens) - WikiPathways	up: 3, down: 2 p = 0.84	up: 7, down: 0 p = 0.85	up: 4, down: 2 p = 0.83
PI3K/Akt PI3K-Akt signaling pathway (Homo sapiens) - WikiPathways	up: 4, down: 0 p = 0.16	up: 2, down: 1 p = 0.022*	no changes
JAK/STAT JAK/STAT pathway (Homo sapiens) - WikiPathways	up: 0, down: 4 p = 0.35	up: 0, down: 1 p = 0.38	no changes
Wnt Wnt signaling (Homo sapiens) - WikiPathways	up: 1, down: 1	up:1; down: 0 p = 0.27	up: 1, down: 1
TGF-beta TGF-beta signaling pathway (Homo sapiens) - WikiPathways	up: 1, down: 0 p = 0.27	Up:1, down: 1 p = 0.45	no changes
VEGF VEGFA-VEGFR2 signaling pathway (Homo sapiens) - WikiPathways	up: 0, down: 1 p = 0.0003*	up: 3, down: 2 p = 0.022*	Up: 4; down: 1 p = 0.14
EGF EGF/EGFR signaling pathway (Homo sapiens) - WikiPathways	up: 1, down: 1 p = 0.45	up: 1, down: 2 p = 0.64	no changes
Integrin signaling Integrin signaling (Homo sapiens) - WikiPathways	up: 1, down 0	no changes	no changes
Hedgehog Hedgehog signaling pathway (Homo sapiens) - WikiPathways	no changes	no changes	no changes
Hippo Hippo-Merlin signaling dysregulation (Homo sapiens) - WikiPathways	up: 2, down: 1	up: 1, down 0 p = 0.53	no changes
Notch Notch signaling (Homo sapiens) - WikiPathways	no changes	no changes	no changes
Toll-like receptor Toll-like receptor signaling pathway (Homo sapiens) - WikiPathways	up: 2, down: 0	no changes	no changes
RHO GTPase signaling	no changes	no changes	no changes

Signaling by Rho GTPases (Homo sapiens) - WikiPathways			
GPCRs GPCRs. class A rhodopsin-like (Homo sapiens) - WikiPathways	up: 3, down: 1 p = 0.42	up: 3, down: 5 p = 0.85	up = 3 down 2
Erythropoietin signalling Signaling by Erythropoietin (Homo sapiens) - WikiPathways	no changes	no changes	no changes