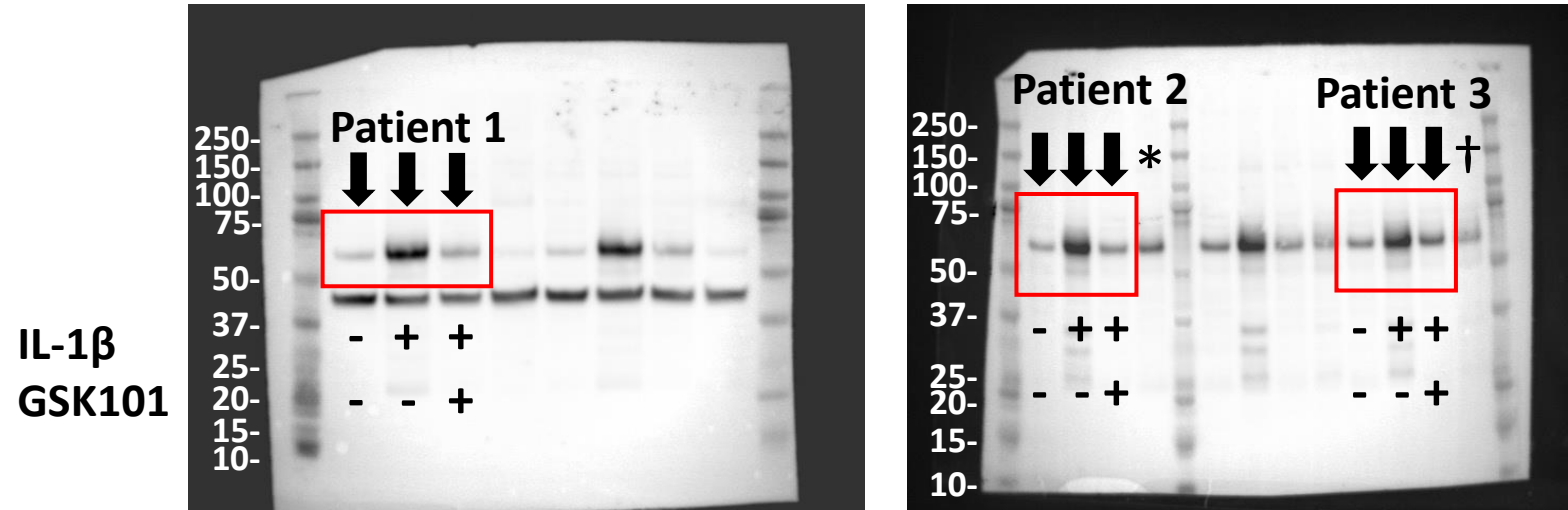
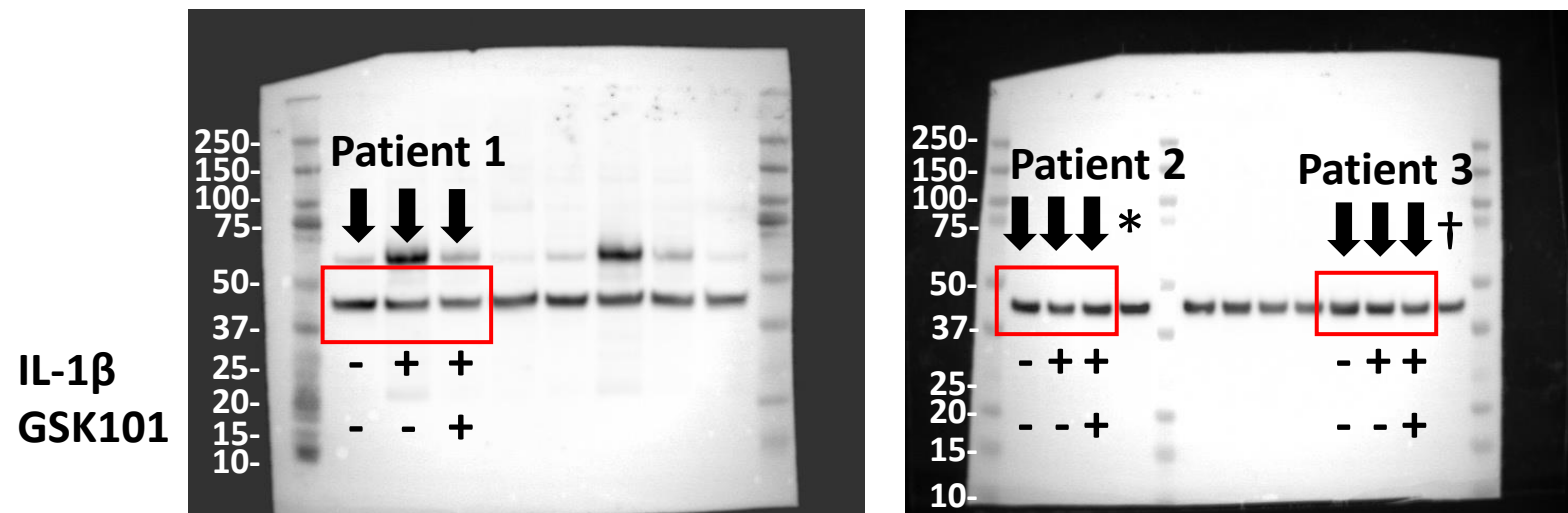


Supplementary data 1

Expression of MMP-13 in HACs in the Figure 2b



Expression of β -actin in HACs in the Figure 2b



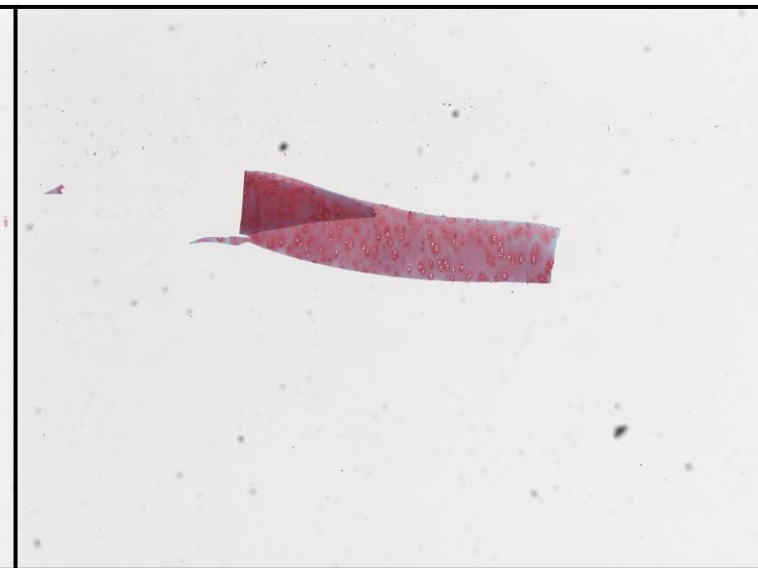
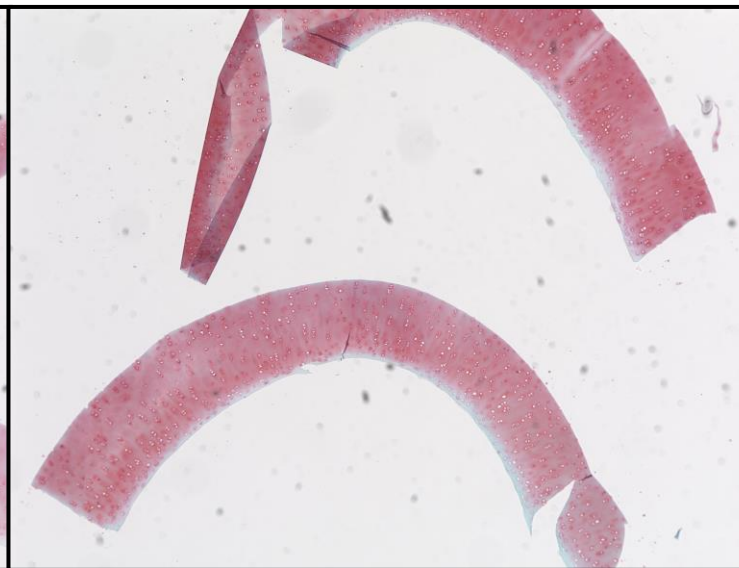
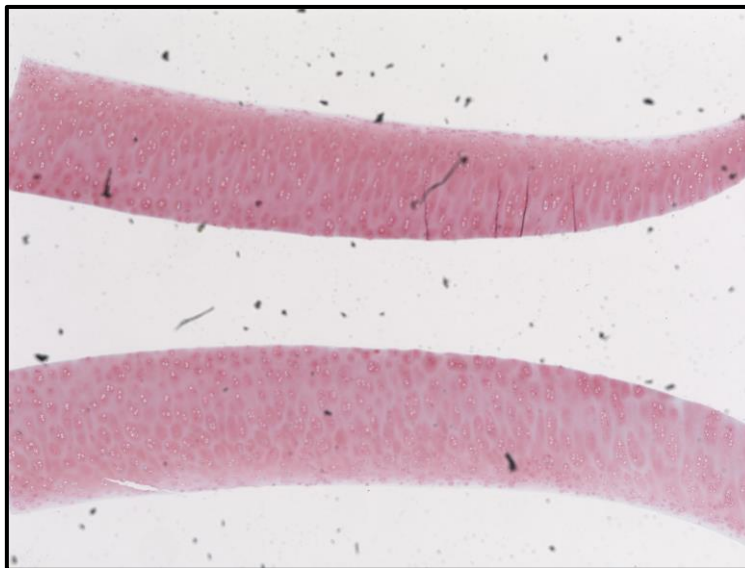
Supplementary data 2

Sample 1

Sample 2

Sample 3

Untreated control



Treated with GSK101



Supplementary data 2 (continued)

Sample 1

Sample 2

Sample 3

**Treated with
IL-1 β**

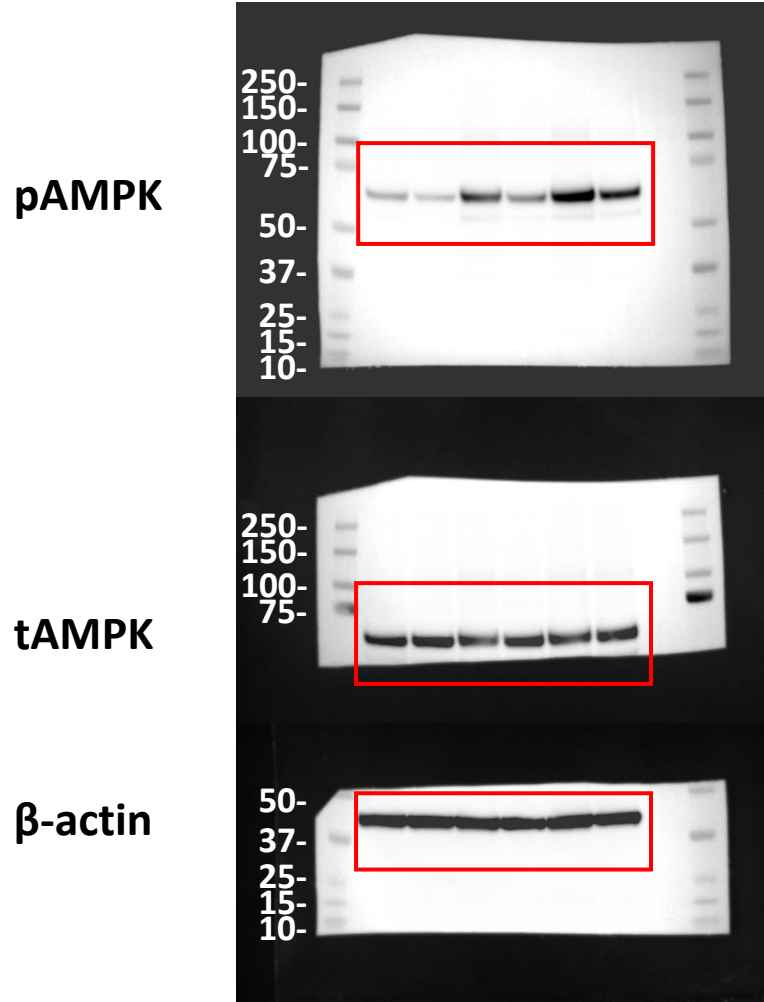


**Co-treated with
IL-1 β and GSK101**



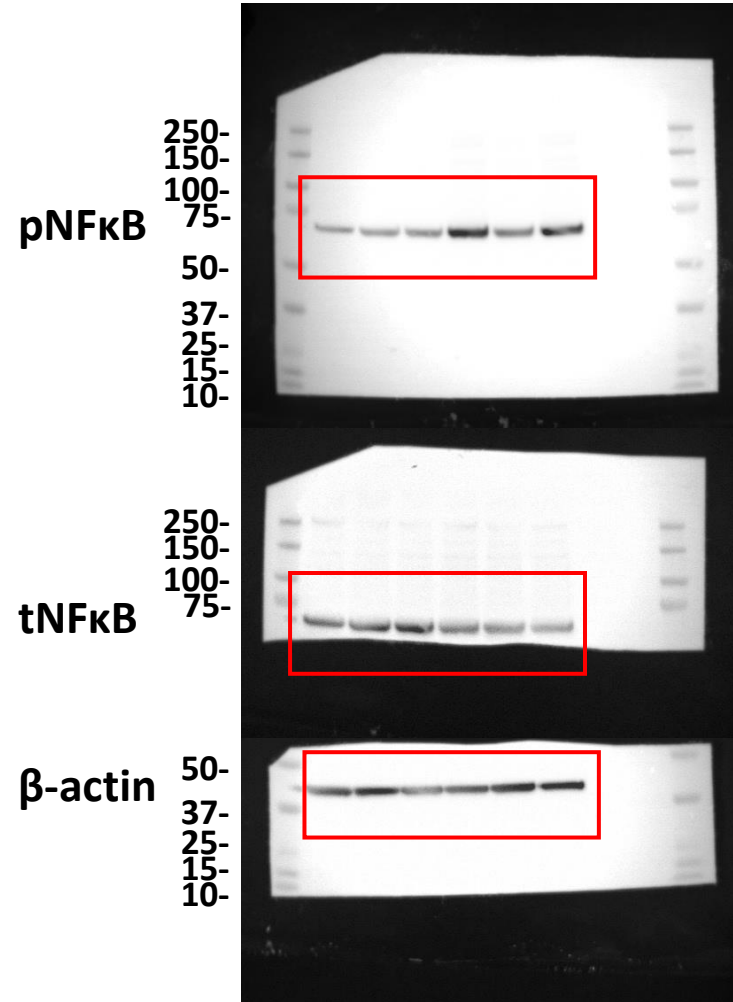
Supplementary data 3(a)

Expression of pAMPK, tAMPK and β -actin in BACs in the Figure 3a



IL-1 β	-	-	-	+	+	+
GSK101	-	-	+	-	+	+
Compound C	-	+	-	-	-	+

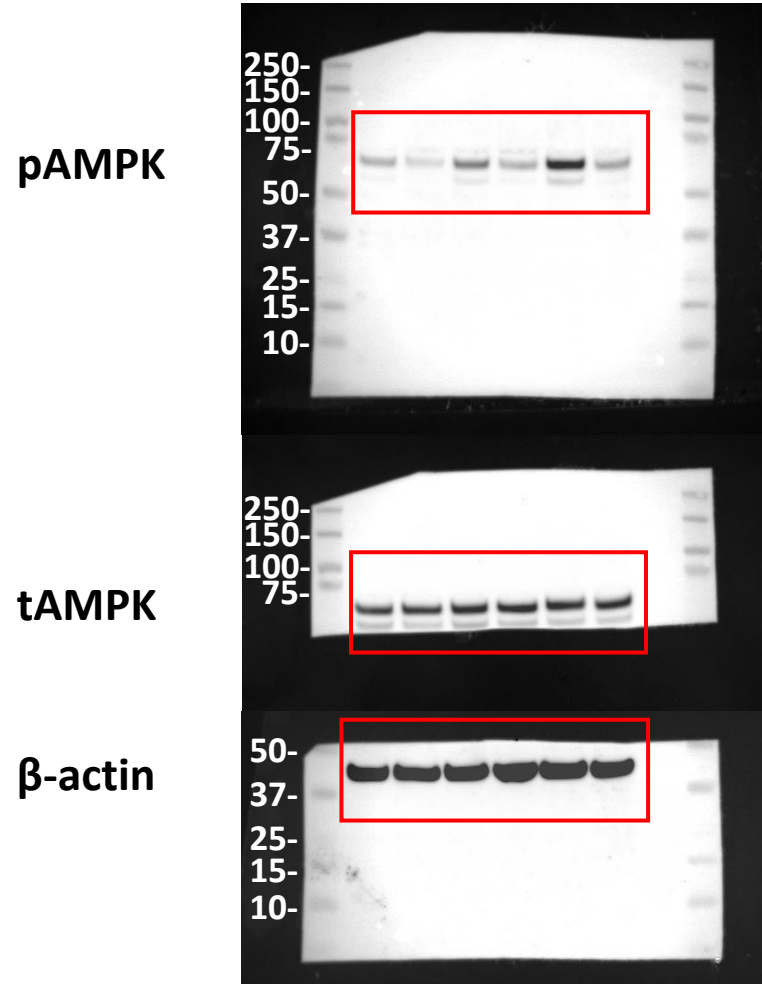
Expression of pNF κ B, tNF κ B and β -actin in BACs in the Figure 3a



IL-1 β	-	-	-	+	+	+
GSK101	-	-	+	-	+	+
Compound C	-	+	-	-	-	+

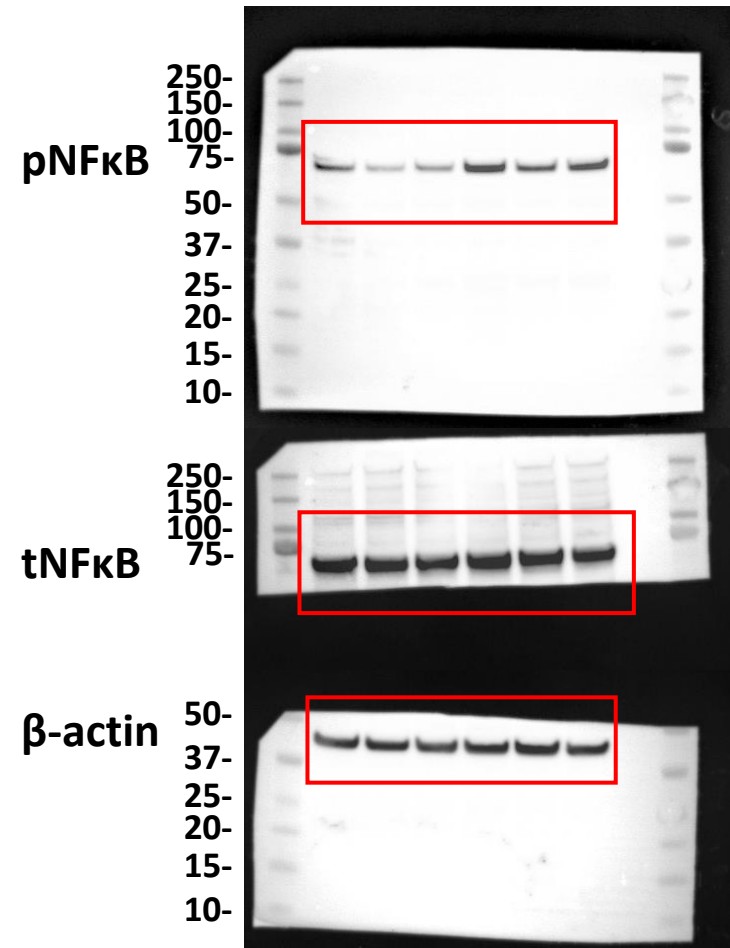
Supplementary data 3(b)

Expression of pAMPK, tAMPK and β -actin in BACs in the Figure 3b



IL-1 β	-	-	-	+	+	+
GSK101	-	-	+	-	+	+
STO-609	-	+	-	-	-	+

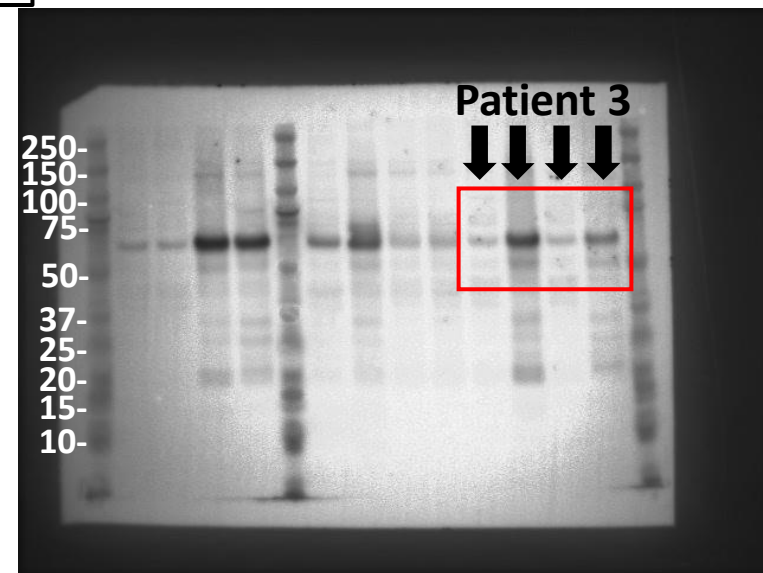
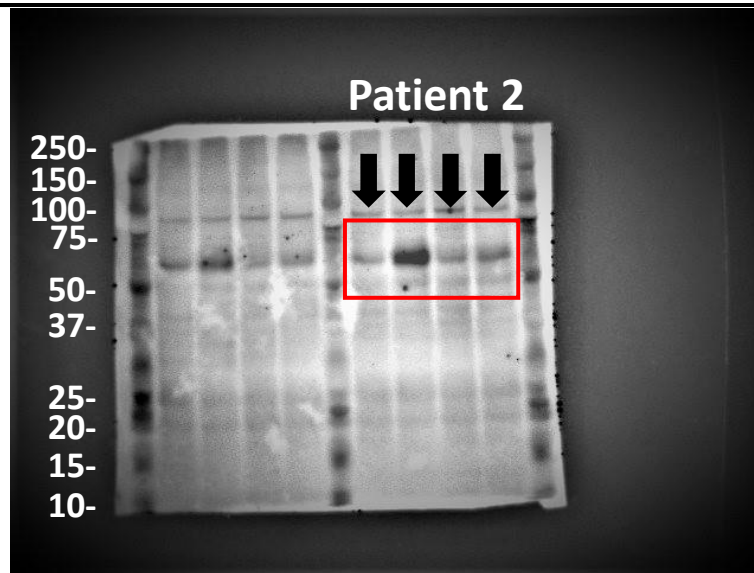
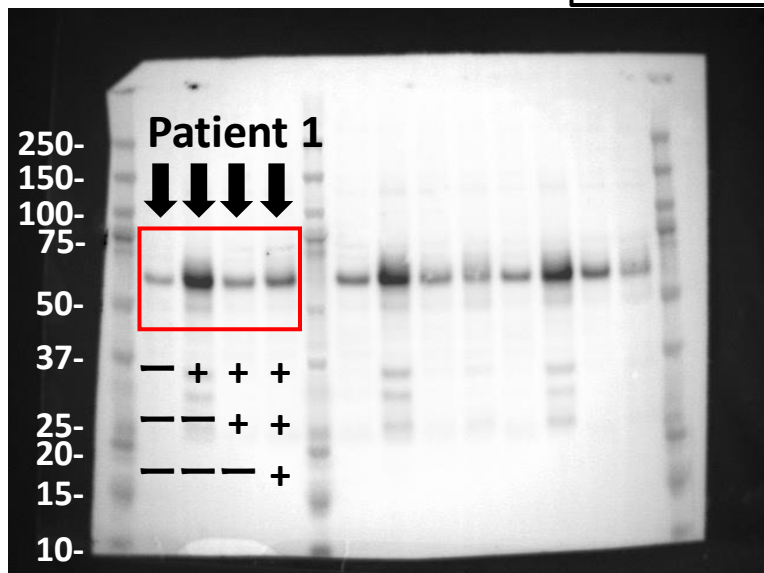
Expression of pNF κ B, tNF κ B and β -actin in BACs in the Figure 3b



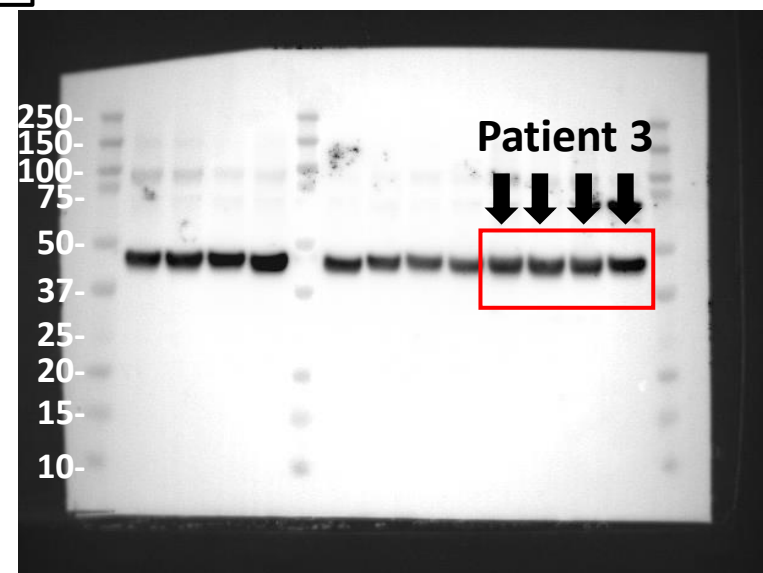
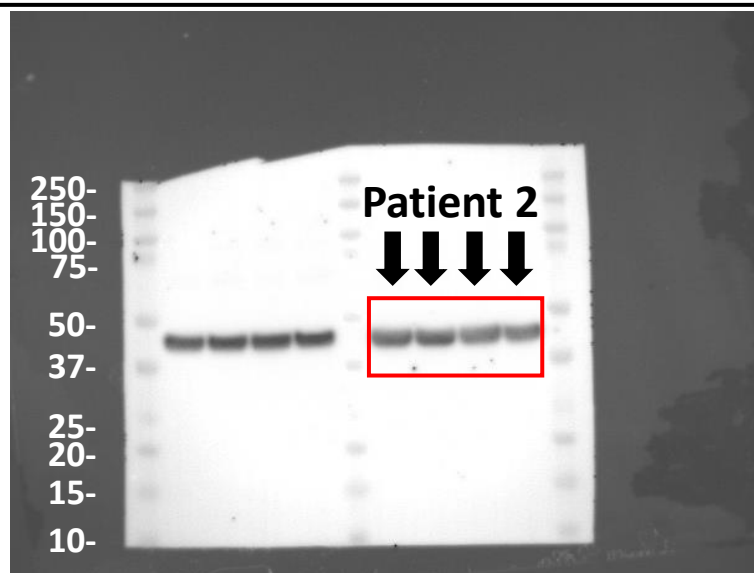
	-	-	-	+	+	+
	-	-	+	-	+	+
	-	+	-	-	-	+

Supplementary data 4

Expression of MMP-13 in HACs in the Figure 4c



Expression of β -actin in HACs in the Figure 4c



Supplementary data 1. Original membranes of MMP-13 and β -actin of Western blot analysis of Figure 2**b** in the manuscript using HACs from three patients. *Co-treated with STO-609. †Co-treated with other agents which were not effective. HAC: human articular chondrocyte.

Supplementary data 2. Three replicates of explant culture of bovine articular cartilage tissue in Safranin O/Fast Green staining on day 7 in each group in Figure 2**d**. A substantial amount of proteoglycans was lost from explants treated with IL-1 β , while this effect was almost completely rescued by co-treatment with IL-1 β and GSK101.

Supplementary data 3. Original membranes of pAMPK and pNF κ B of Western blot analysis of Figure 3 in the manuscript using BACs treated with IL-1 β , GSK101 and (a) Compound C and (b) STO-609. BAC: bovine articular chondrocyte; p: phospho-; t: total-.

Supplementary data 4. Original membranes of MMP-13 of Western blot analysis of Figure 4c in the manuscript using HACs from three patients. HAC: human articular chondrocyte.