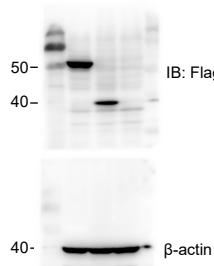
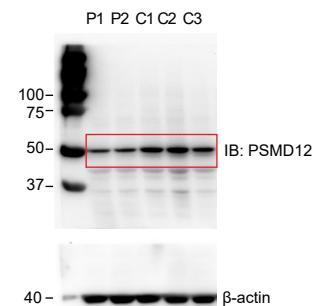


Figure 1 Identification of *PSMD12* variant and dysfunction of patients' proteasome

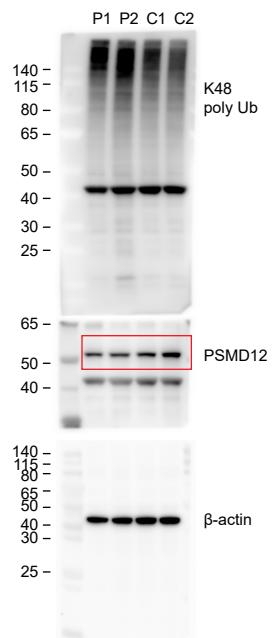
		HEK293T		
		WT-Flag	R289*-Flag	Empty vector
		+	+	+



PBMC



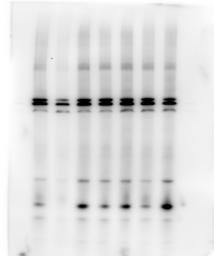
PBMC



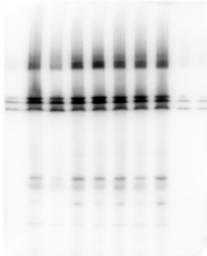
G

c4/PSMA7
P1 P2 C1 C2 C3 C4 C5

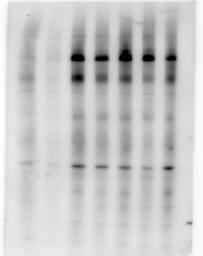
30S
26S
20S+PA28
20S



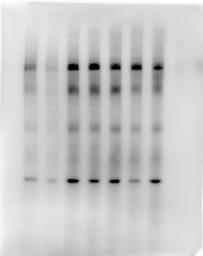
β7/PSMB4
P1 P2 C1 C2 C3 C4 C5



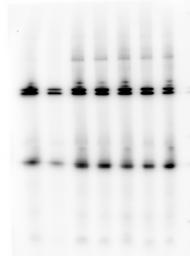
Rpn3/PSMD3
P1 P2 C1 C2 C3 C4 C5



Rpn5/PSMD12
P1 P2 C1 C2 C3 C4 C5



PA28/PSME2
P1 P2 C1 C2 C3 C4 C5



β-actin

P1 P2 C1 C2 C3 C4 C5



Figure 2 Elevated inflammation signals in patients PBMCs

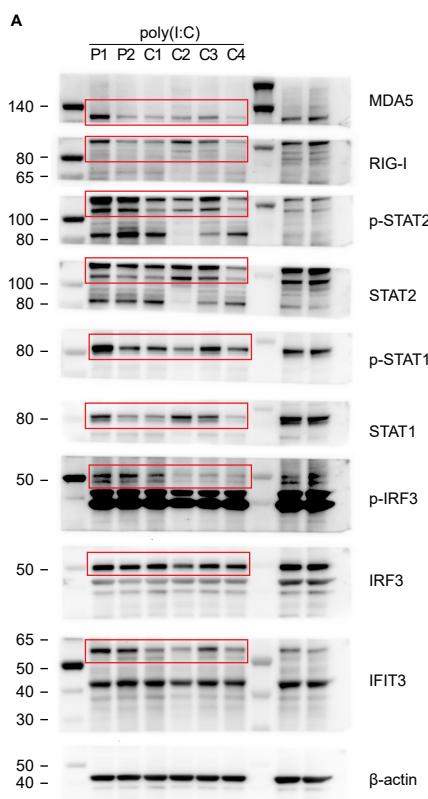


Figure S1 Defect of preteasome assembly and function in PSMD12 haploinsufficiency

