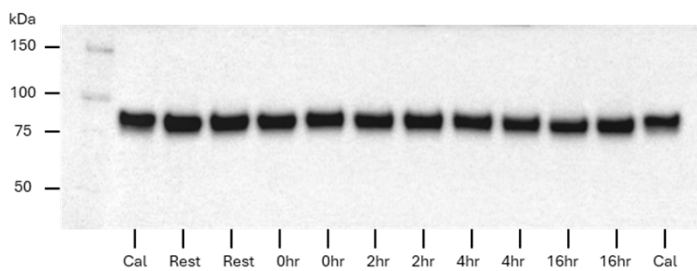
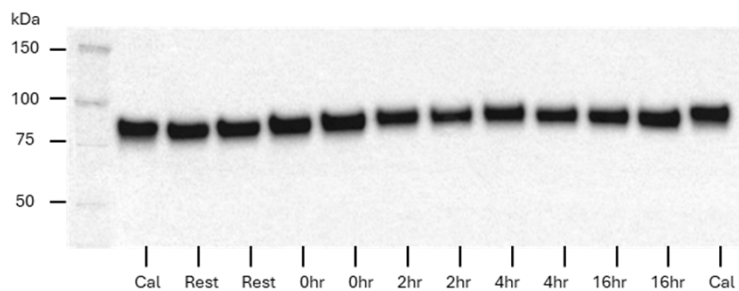


## Glycogen Synthase

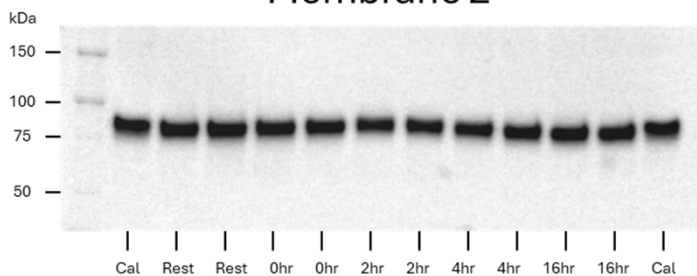
### Membrane 1



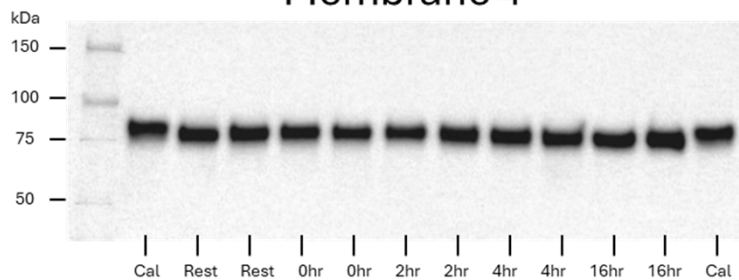
### Membrane 3



### Membrane 2

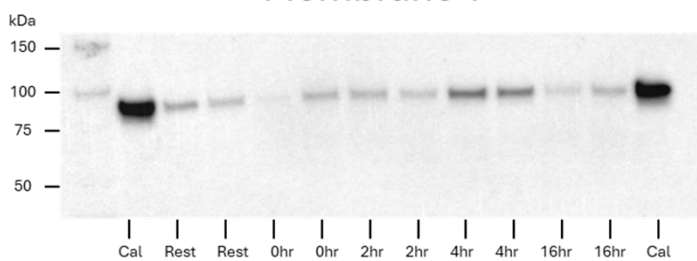


### Membrane 4

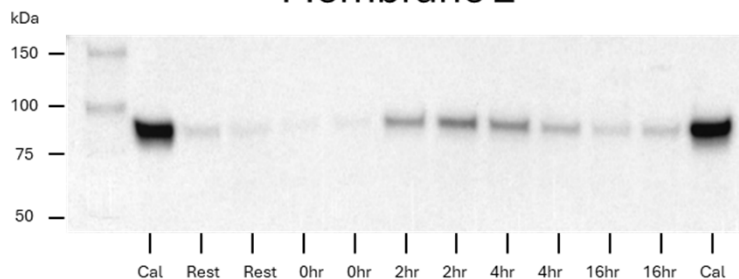


## Phosphorylated (Ser641) Glycogen Synthase

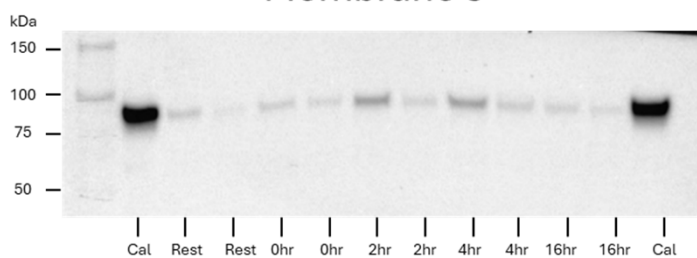
### Membrane 1



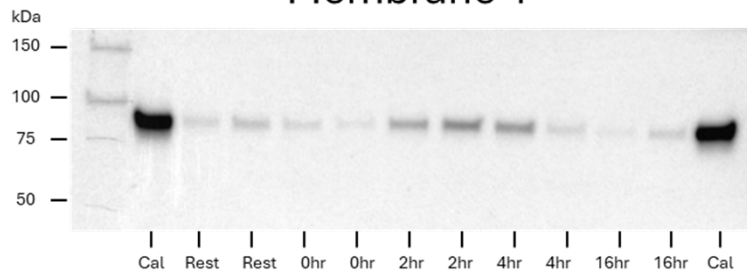
### Membrane 2



### Membrane 3



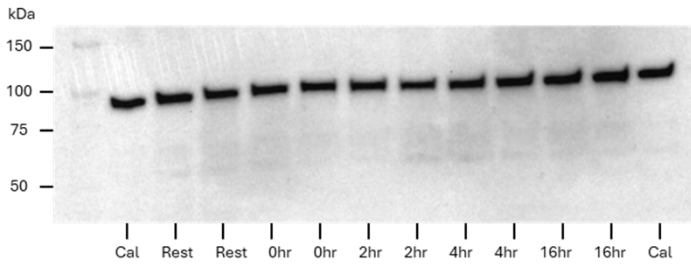
### Membrane 4



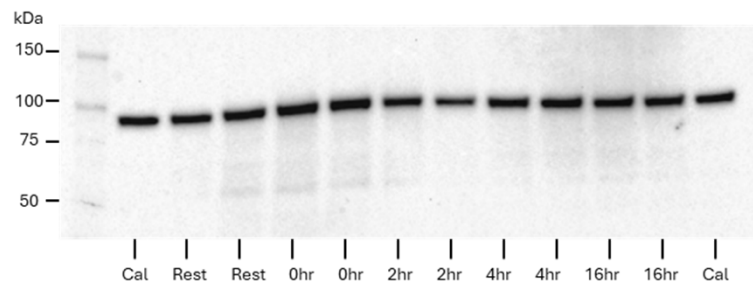
**Supplementary figure S1. Glycogen Synthase Immunoblots.** Cal, calibrator sample loaded on to each gel. Related to Figure 1.

## Glycogen Phosphorylase

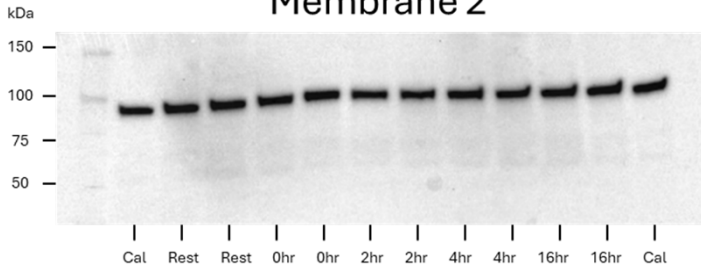
### Membrane 1



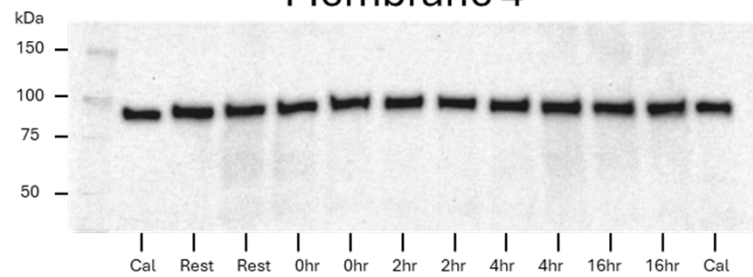
### Membrane 3



### Membrane 2

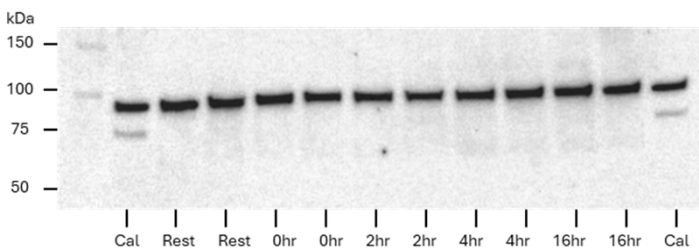


### Membrane 4

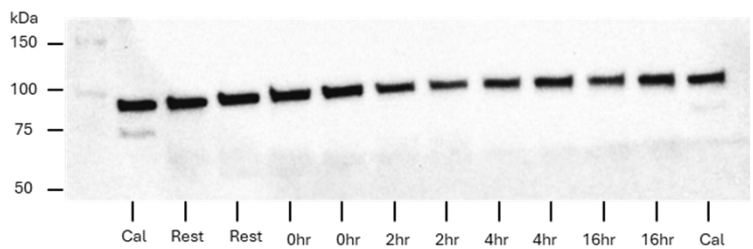


## Phosphorylated (Ser14) Glycogen Phosphorylase

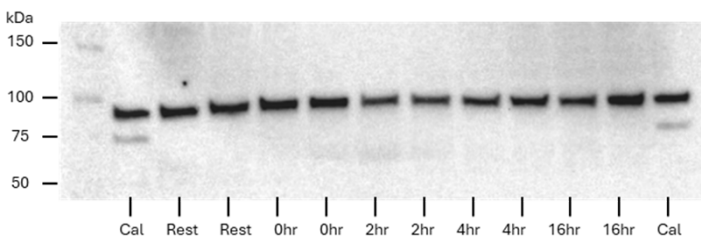
### Membrane 1



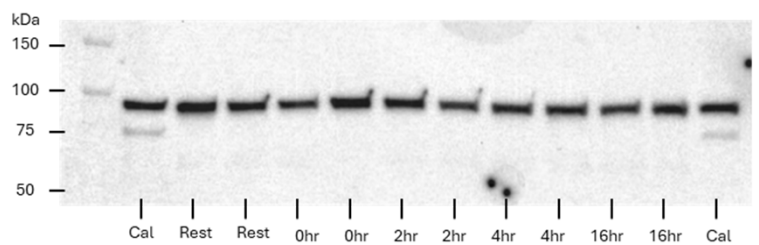
### Membrane 3



### Membrane 2

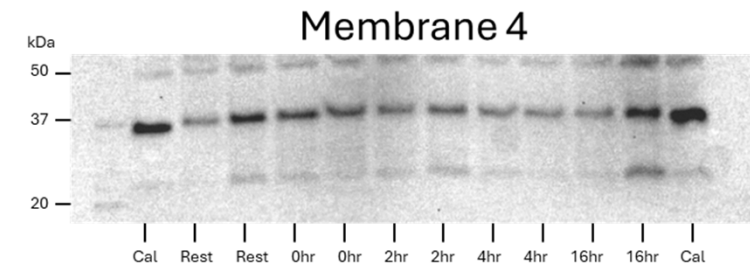
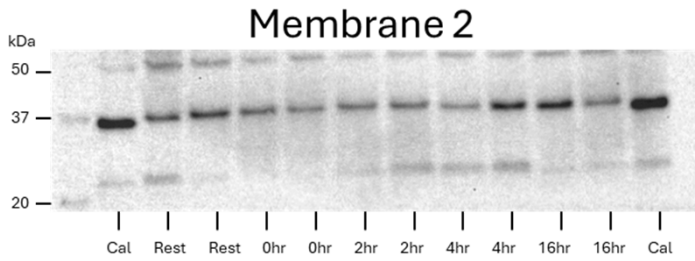
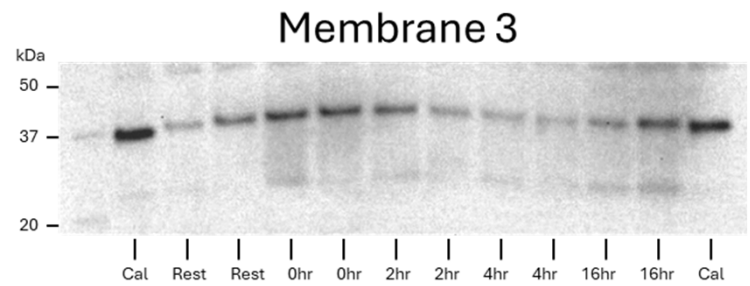
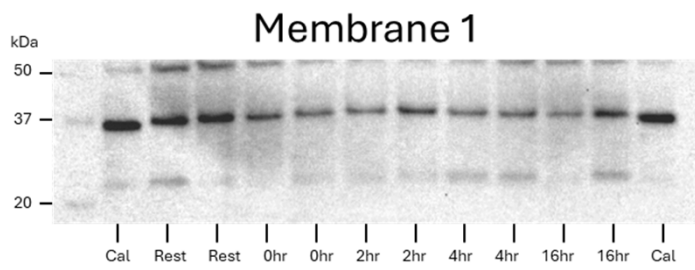


### Membrane 4

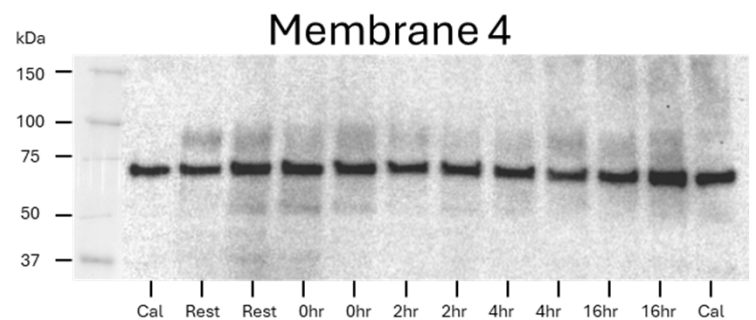
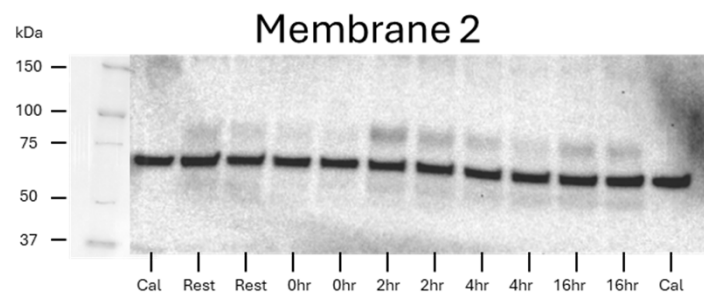
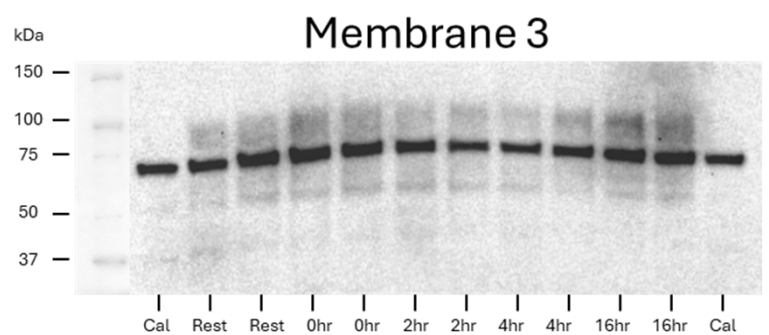
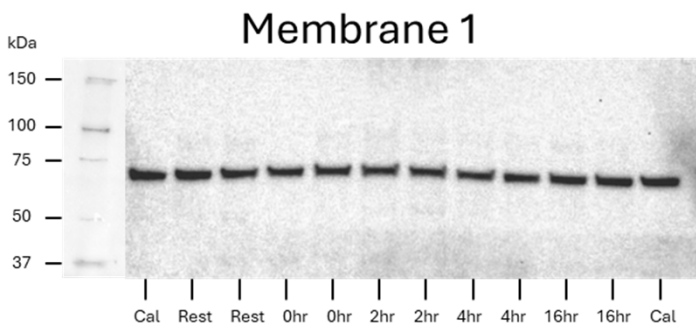


**Supplementary figure S2. Glycogen Phosphorylase Immunoblots.** Cal, calibrator sample loaded on to each gel. Related to Figure 1.

## STBD1



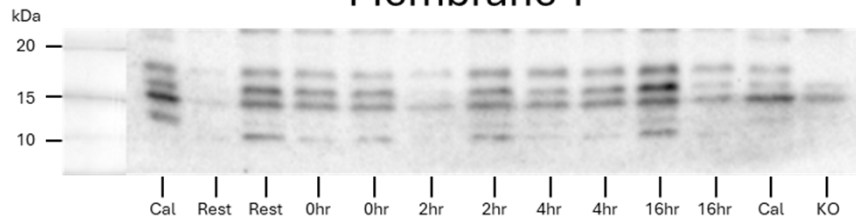
## GAA



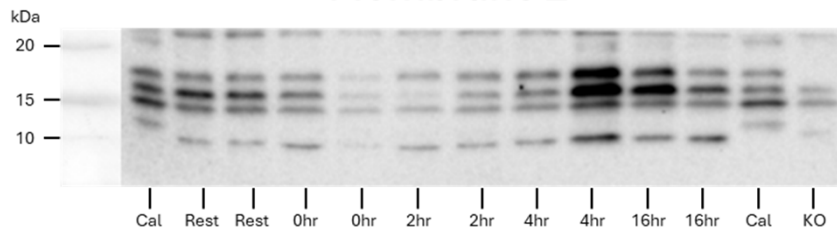
**Supplementary figure S3. STBD1 and GAA Immunoblots.** Cal, calibrator sample loaded on to each gel. Related to Figure 2

## GABARAPL1

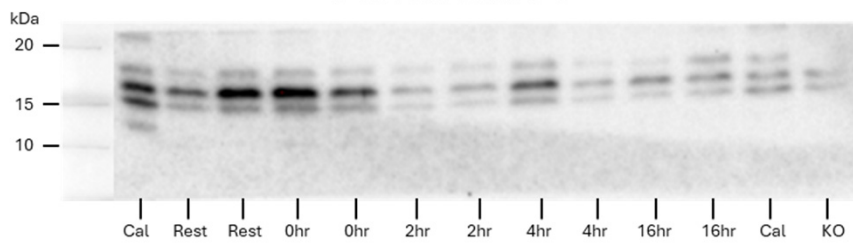
### Membrane 1



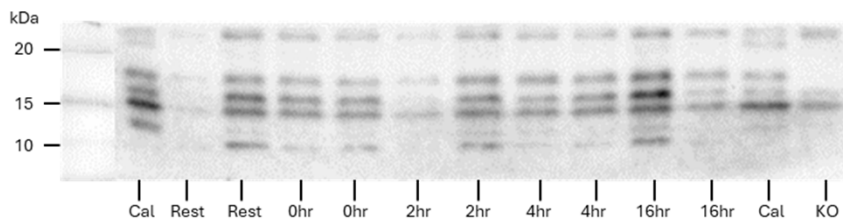
### Membrane 2



### Membrane 3



### Membrane 4



**Supplementary figure S4. GABARAPL1 Immunoblots.** Cal, calibrator sample loaded on to each gel. KO, GABARAPL1-KO mouse heart homogenate as a negative control. Related to Figure 2