

**Supplementary Materials - Original images of RT-PCR and Western blot analysis (expression on mRNA and proteins levels).**

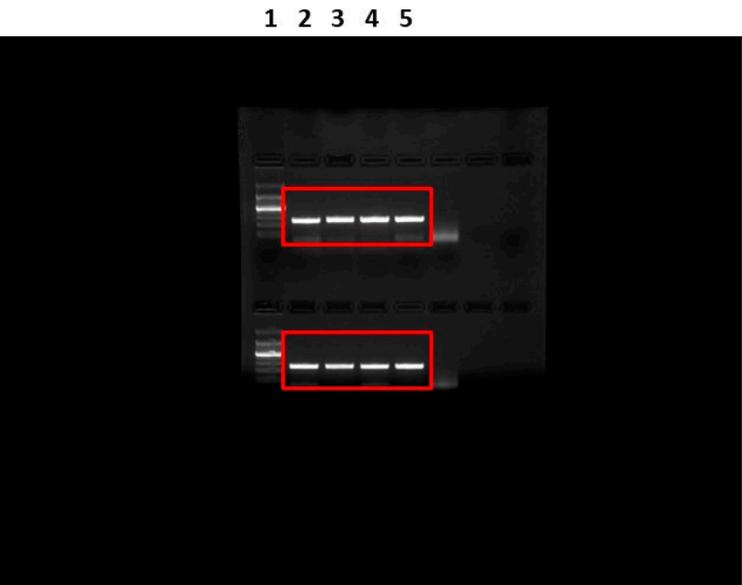
**RT-PCR**



**β-actin**

- 1. Molecular weight DNA ladder
- 2. WM115, Normoxia, 16h
- 3. WM115, Hypoxia, 16h
- 4. WM266-4, Normoxia, 16h
- 5. WM266-4, Hypoxia, 16h

**RT-PCR**

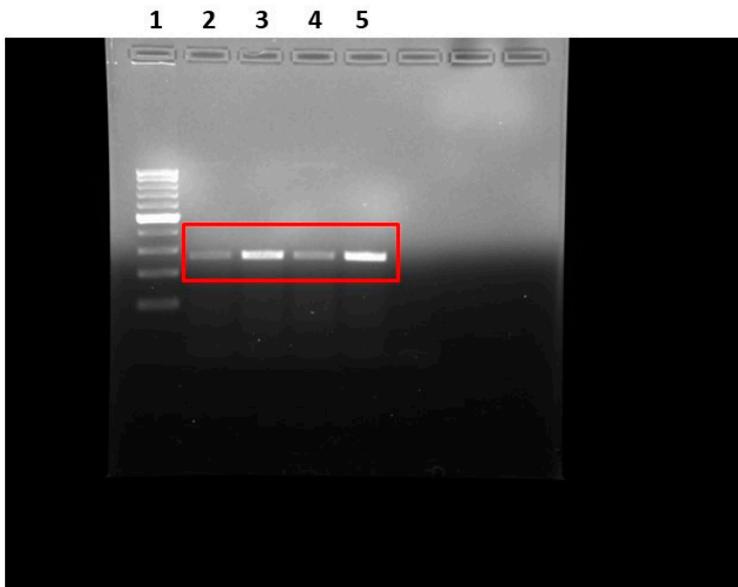


**β-actin**

- Upper gel
- 1. Molecular weight DNA ladder
  - 2. WM115, Normoxia, 24h
  - 3. WM115, Hypoxia, 24h
  - 4. WM266-4, Normoxia, 24h
  - 5. WM266-4, Hypoxia, 24h
- Lower gel
- 1. Molecular weight DNA ladder
  - 2. WM115, Normoxia, 48h
  - 3. WM115, Hypoxia, 48h
  - 4. WM266-4, Normoxia, 48h
  - 5. WM266-4, Hypoxia, 48h

## RT-PCR

## Carbonic anhydrase IX

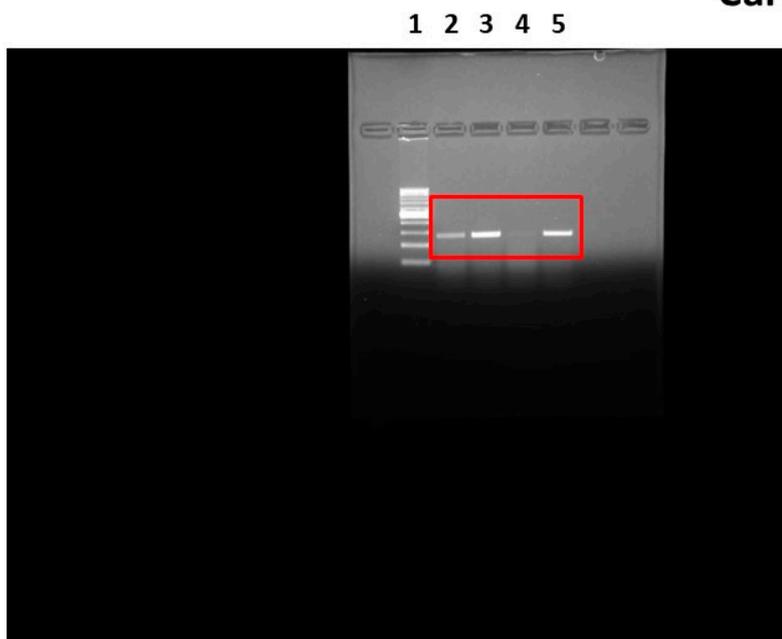


## CAIX

1. Molecular weight DNA ladder
2. WM115, Normoxia, 16h
3. WM115, Hypoxia, 16h
4. WM266-4, Normoxia, 16h
5. WM266-4, Hypoxia, 16h

## RT-PCR

## Carbonic anhydrase IX



## CAIX

1. Molecular weight DNA ladder
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h

## RT-PCR

## Carbonic anhydrase IX

1 2 3 4 5



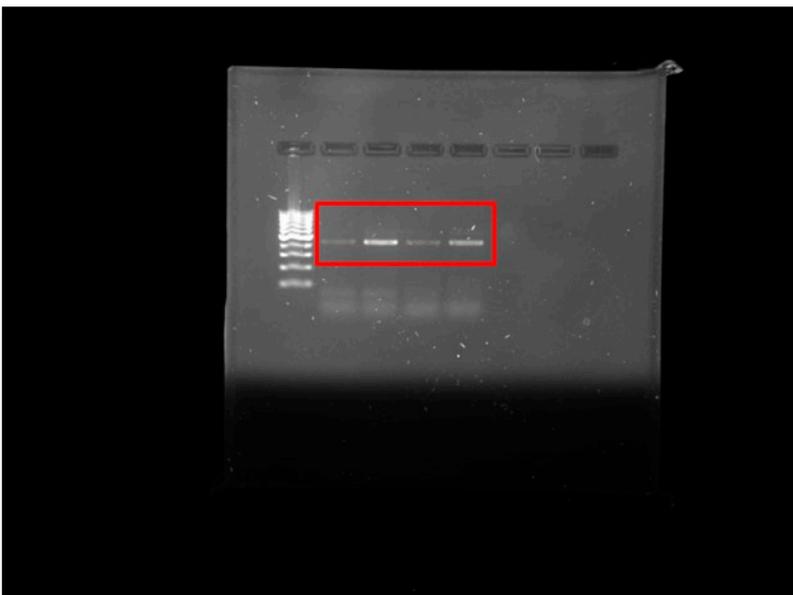
### CAIX

1. Molecular weight DNA ladder
2. WM115, Normoxia, 48h
3. WM115, Hypoxia, 48h
4. WM266-4, Normoxia, 48h
5. WM266-4, Hypoxia, 48h

## RT-PCR

## Phosphofructo-2- kinase/fructose-2,6-biphosphatase 4

1 2 3 4 5



### PFKFB4

1. Molecular weight DNA ladder
2. WM115, Normoxia, 16h
3. WM115, Hypoxia, 16h
4. WM266-4, Normoxia, 16h
5. WM266-4, Hypoxia, 16h

## RT-PCR

### Phosphofructo-2- kinase/fructose-2,6-biphosphatase 4

1 2 3 4 5



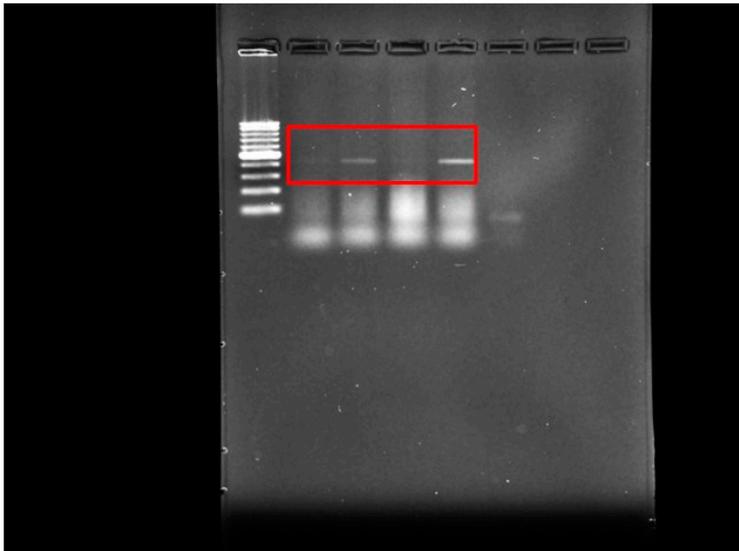
## PFKFB4

1. Molecular weight DNA ladder
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h

## RT-PCR

### Phosphofructo-2- kinase/fructose-2,6-biphosphatase 4

1 2 3 4 5



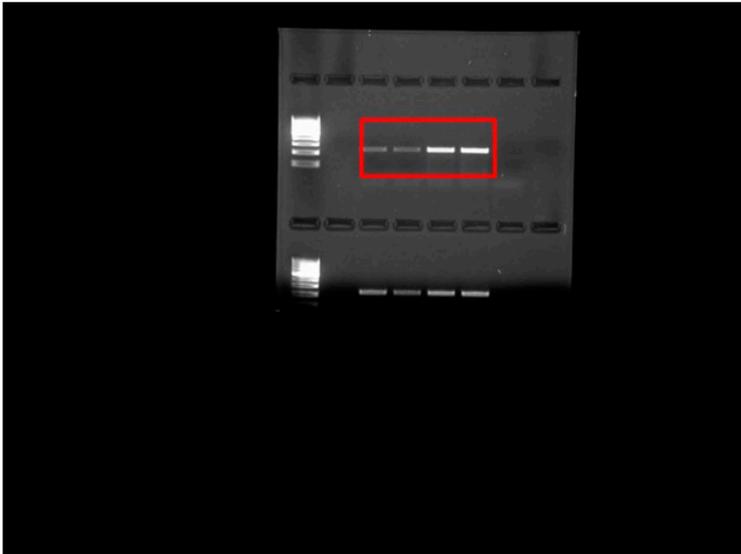
## PFKFB4

1. Molecular weight DNA ladder
2. WM115, Normoxia, 48h
3. WM115, Hypoxia, 48h
4. WM266-4, Normoxia, 48h
5. WM266-4, Hypoxia, 48h

## RT-PCR

## 3-Mercaptopyruvate sulfurtransferase

1 2 3 4 5



## MPST

1. Molecular weight DNA ladder
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h

## RT-PCR

## Cystathionine- $\beta$ -synthase

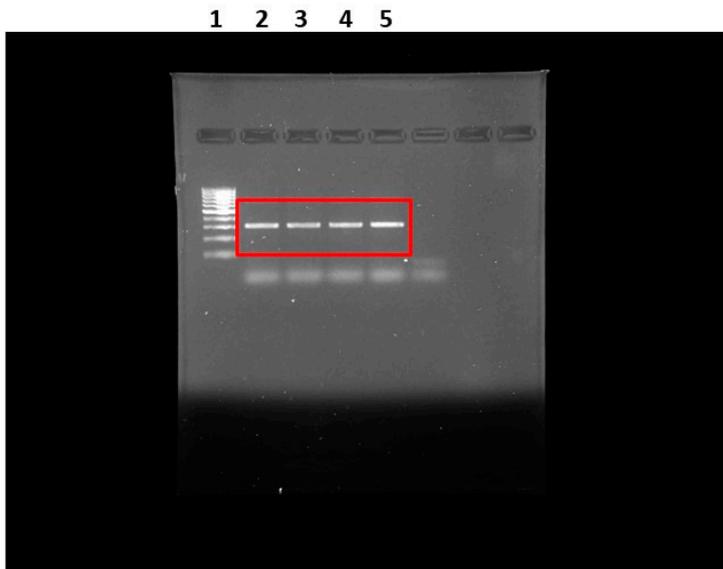
1 2 3 4 5



## CBS

1. Molecular weight DNA ladder
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h

## RT-PCR

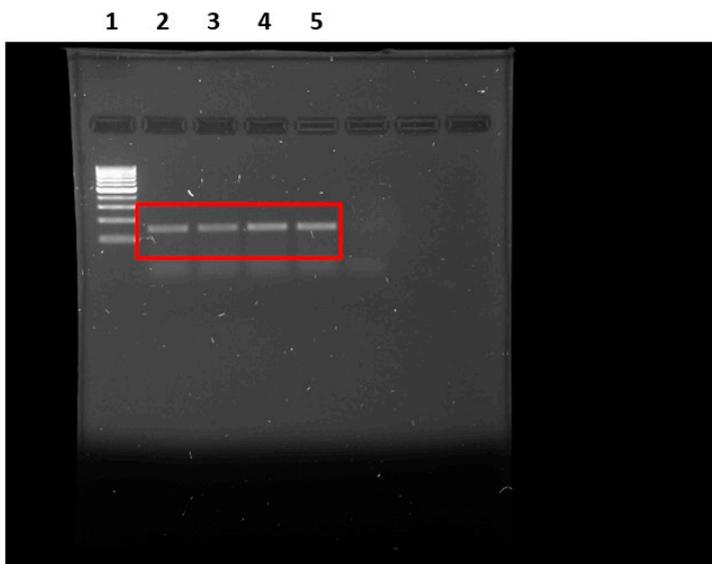


## $\gamma$ -Cystathionase

### CTH

1. Molecular weight DNA ladder
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h

## RT-PCR

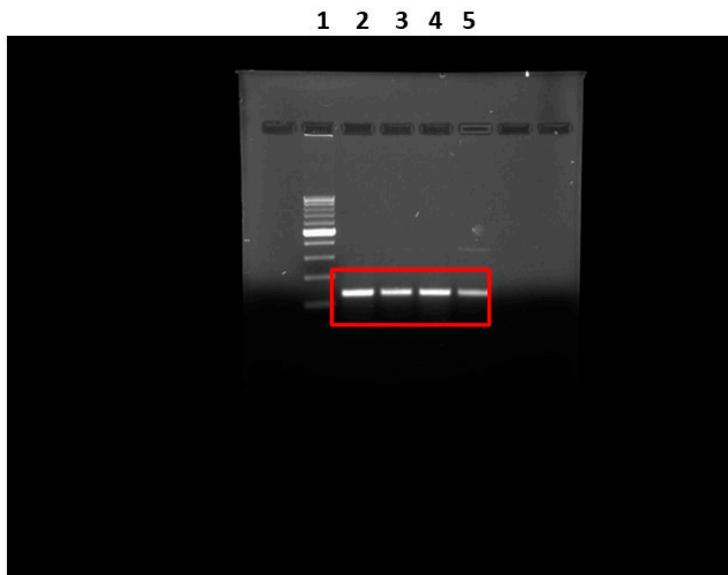


## Thiosulfate sulfurtransferase

### TST

1. Molecular weight DNA ladder
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h

## RT-PCR

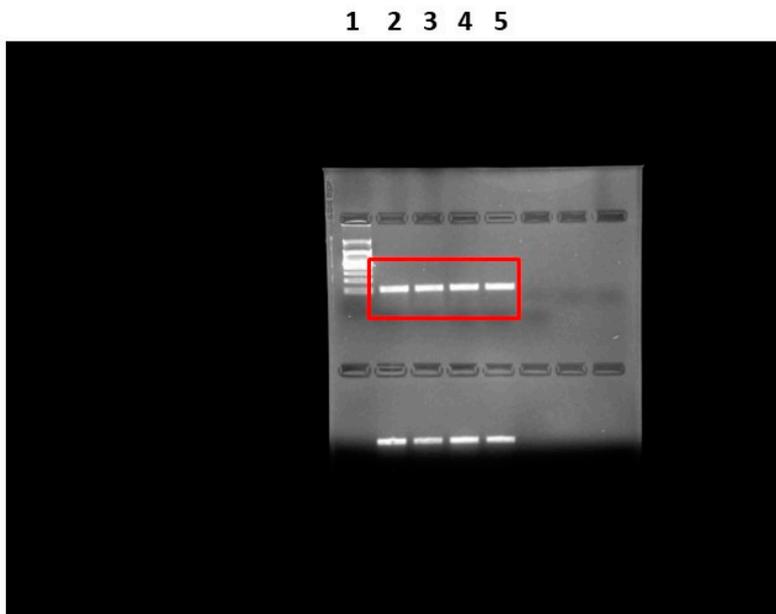


## Thioredoxin reductase 1

### TXNRD1

1. Molecular weight DNA ladder
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h

## RT-PCR

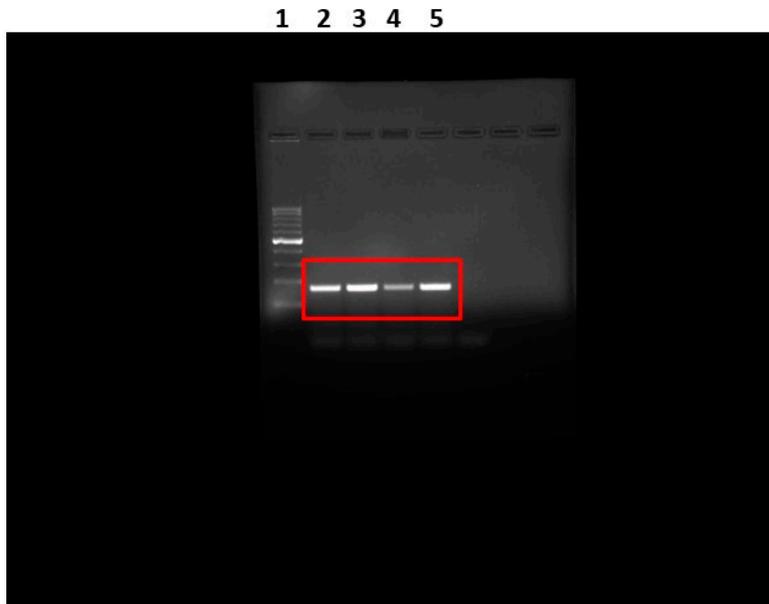


## Thioredoxin

### TRX

1. Molecular weight DNA ladder
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h

## RT-PCR



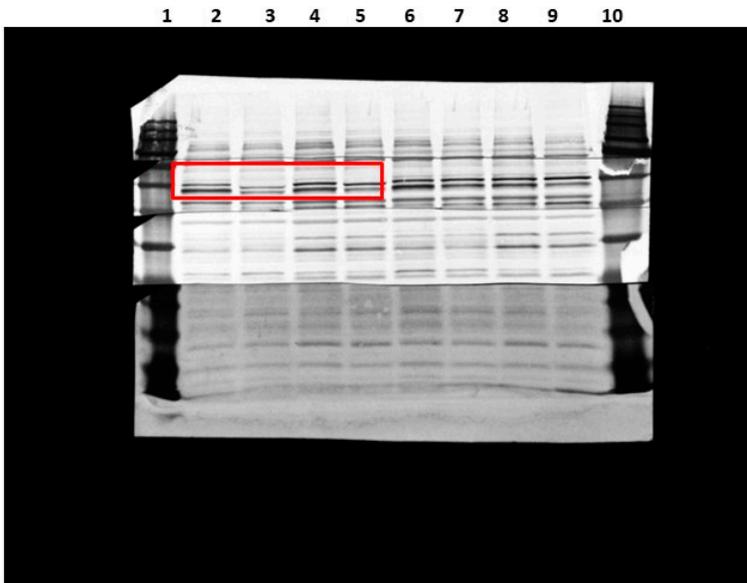
## Glutathione peroxidase

### PGx

1. Molecular weight DNA ladder
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h

**WESTERN BLOT**

**Cystathionine- $\beta$ -synthase**

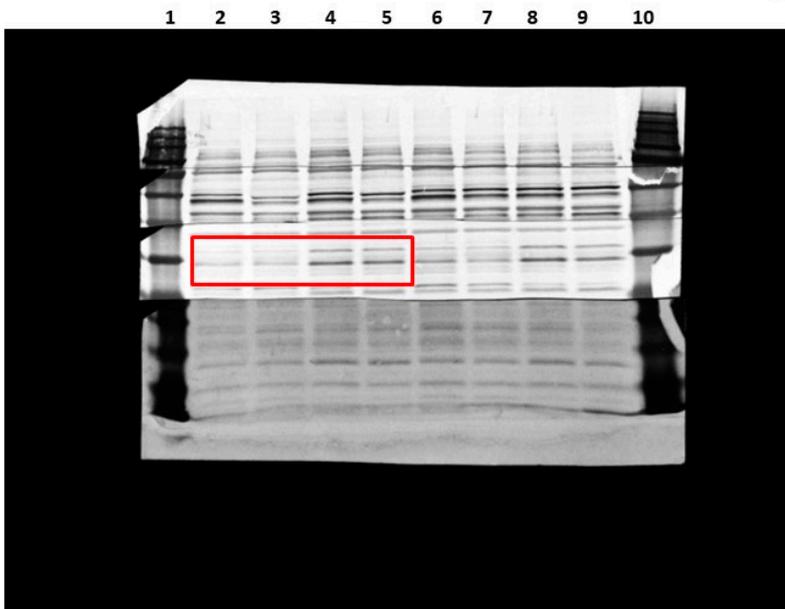


← **CBS**

1. Molecular weight standard
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h
6. WM115, Normoxia, 48h
7. WM115, Hypoxia, 48h
8. WM266-4, Normoxia, 48h
9. WM266-4, Hypoxia, 48h
10. Molecular weight standard

**WESTERN BLOT**

**3-Mercaptopyruvate  
sulfurtransferase**

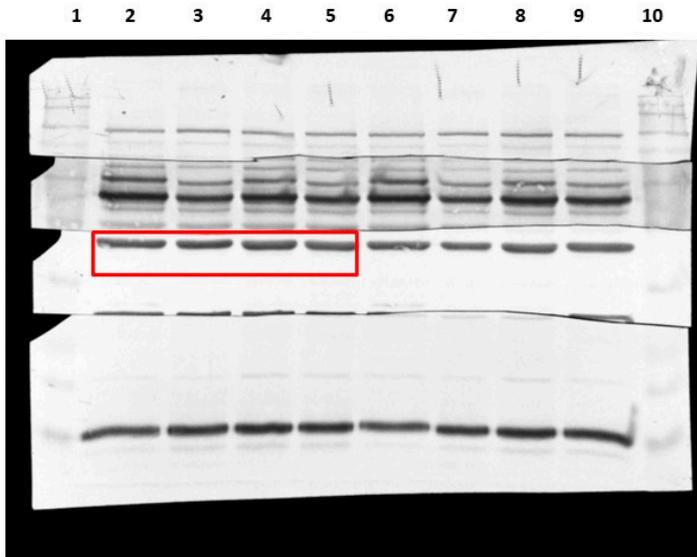


← **MPST**

1. Molecular weight standard
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h
6. WM115, Normoxia, 48h
7. WM115, Hypoxia, 48h
8. WM266-4, Normoxia, 48h
9. WM266-4, Hypoxia, 48h
10. Molecular weight standard

WESTERN BLOT

$\gamma$ -Cystathionase

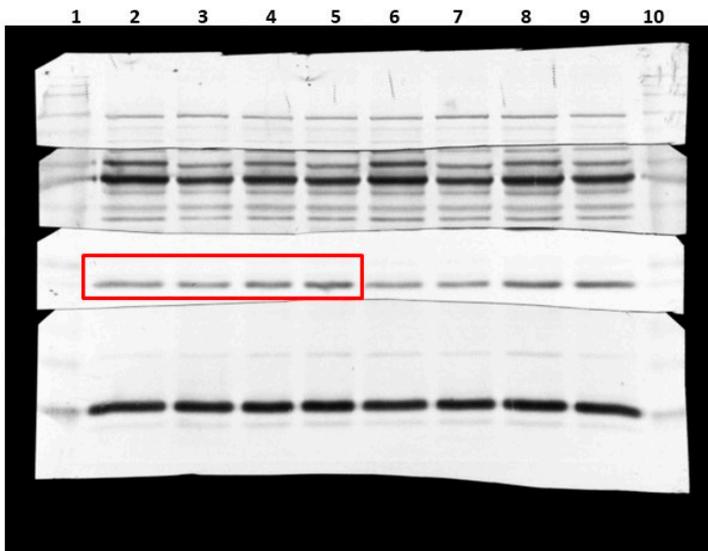


← CTH

1. Molecular weight standard
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h
6. WM115, Normoxia, 24h
7. WM115, Hypoxia, 24h
8. WM266-4, Normoxia, 24h
9. WM266-4, Hypoxia, 24h
10. Molecular weight standard

WESTERN BLOT

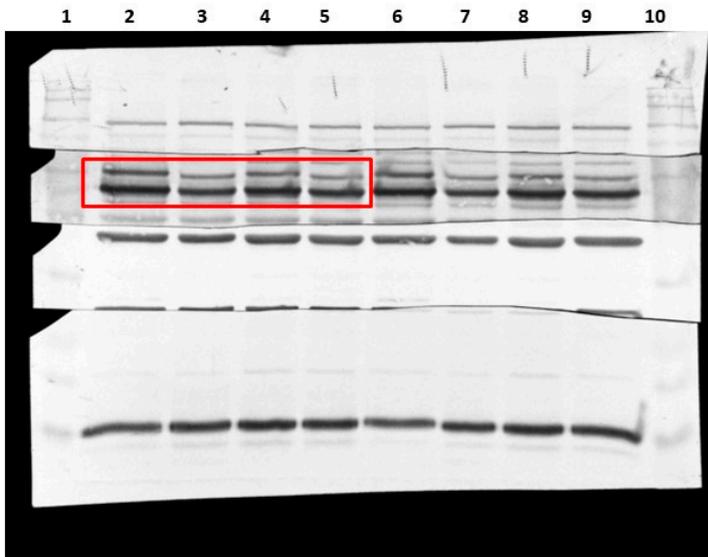
Thiosulfate  
sulfurtransferase



← TST

1. Molecular weight standard
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h
6. WM115, Normoxia, 24h
7. WM115, Hypoxia, 24h
8. WM266-4, Normoxia, 24h
9. WM266-4, Hypoxia, 24h
10. Molecular weight standard

WESTERN BLOT

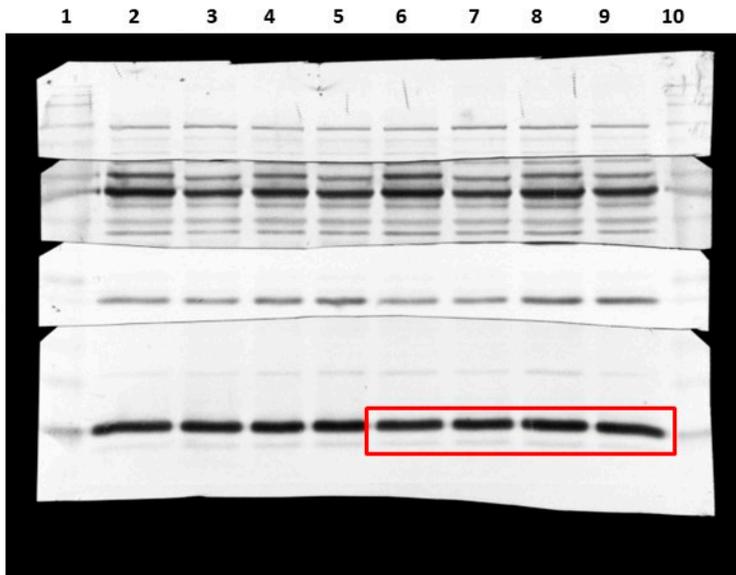


Thioredoxin  
reductase 1

← TXNRD1

1. Molecular weight standard
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h
6. WM115, Normoxia, 24h
7. WM115, Hypoxia, 24h
8. WM266-4, Normoxia, 24h
9. WM266-4, Hypoxia, 24h
10. Molecular weight standard

WESTERN BLOT

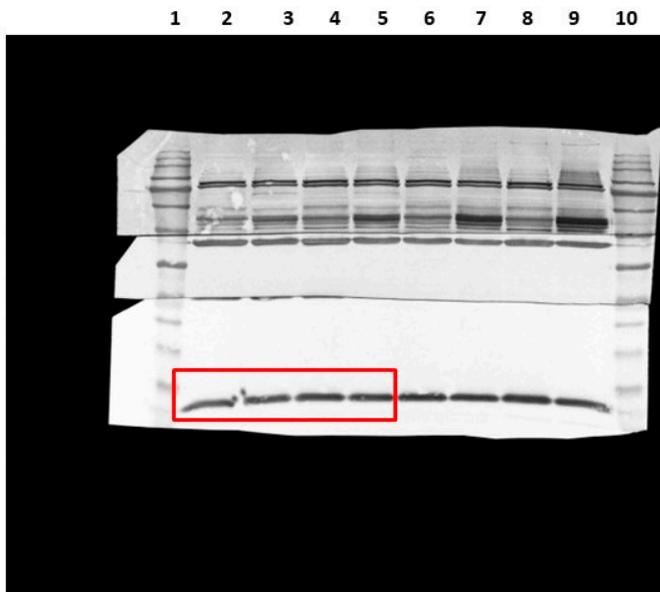


Superoxide  
dismutase 1

← SOD1

1. Molecular weight standard
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h
6. WM115, Normoxia, 24h
7. WM115, Hypoxia, 24h
8. WM266-4, Normoxia, 24h
9. WM266-4, Hypoxia, 24h
10. Molecular weight standard

## WESTERN BLOT

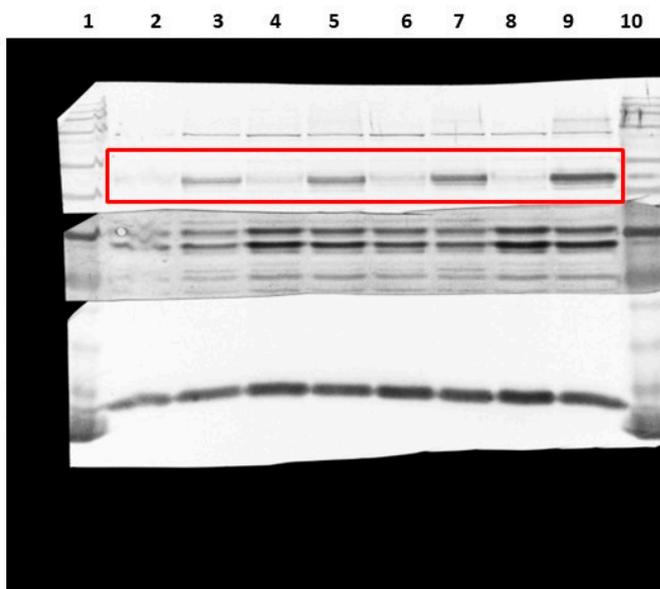


1. Molecular weight standard
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h
6. WM115, Normoxia, 48h
7. WM115, Hypoxia, 48h
8. WM266-4, Normoxia, 48h
9. WM266-4, Hypoxia, 48h
10. Molecular weight standard

← TRX

**Thioredoxin**

## WESTERN BLOT



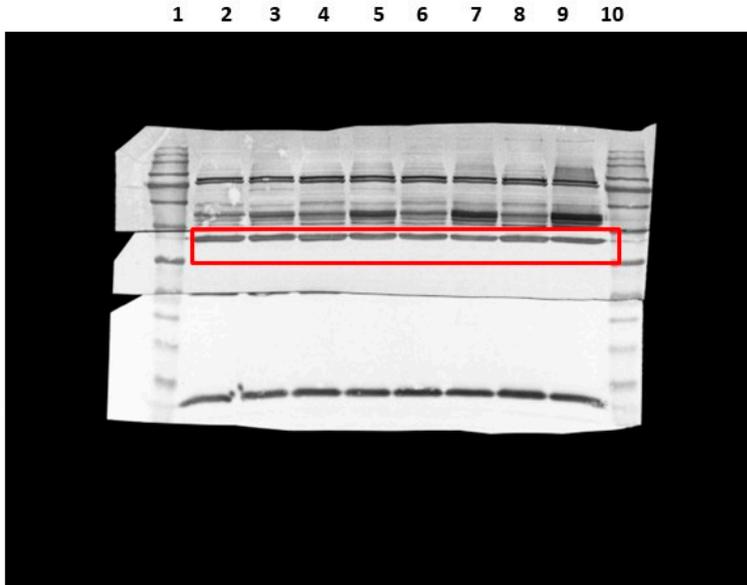
**Carbonic anhydrase IX**

← CAIX

1. Molecular weight standard
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h
6. WM115, Normoxia, 48h
7. WM115, Hypoxia, 48h
8. WM266-4, Normoxia, 48h
9. WM266-4, Hypoxia, 48h
10. Molecular weight standard

WESTERN BLOT

$\beta$ -actin

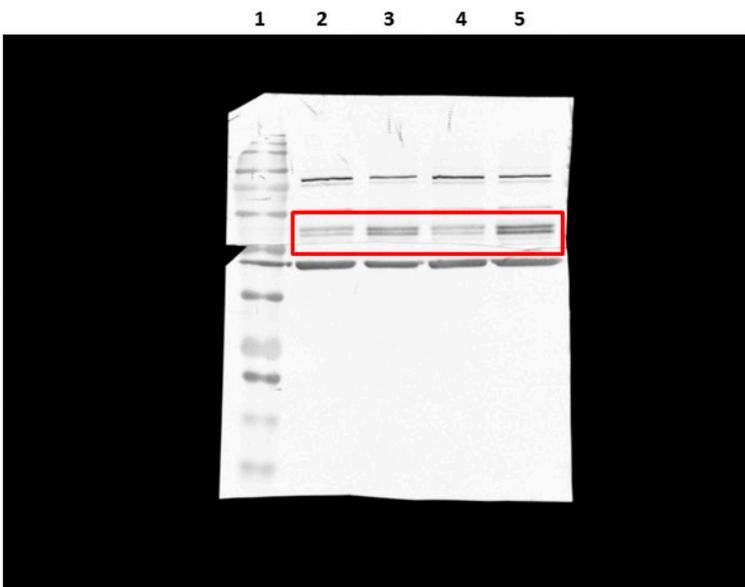


←  $\beta$ -actin

1. Molecular weight standard
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h
6. WM115, Normoxia, 48h
7. WM115, Hypoxia, 48h
8. WM266-4, Normoxia, 48h
9. WM266-4, Hypoxia, 48h
10. Molecular weight standard

WESTERN BLOT

Carbonic anhydrase IX

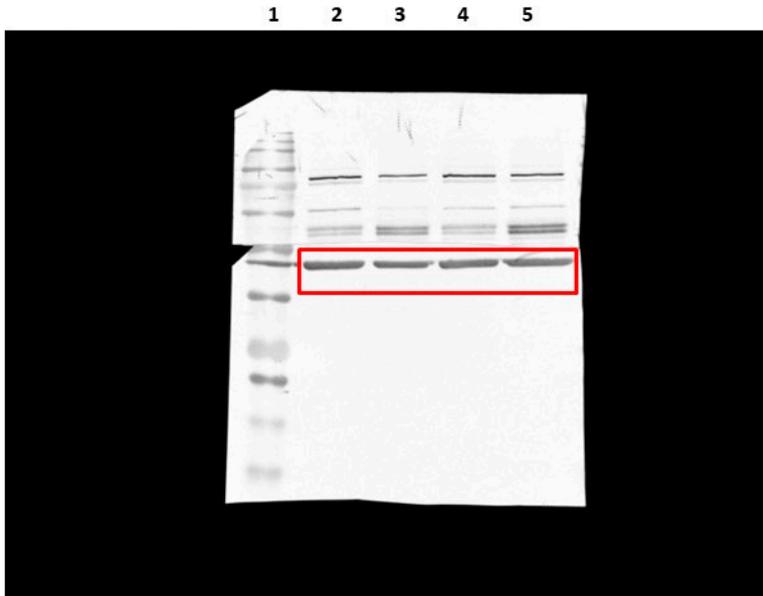


← CAIX

1. Molecular weight standard
2. WM115, Normoxia, 16h
3. WM115, Hypoxia, 16h
4. WM266-4, Normoxia, 16h
5. WM266-4, Hypoxia, 16h

## WESTERN BLOT

$\beta$ -actin



←  $\beta$ -actin

1. Molecular weight standard
2. WM115, Normoxia, 16h
3. WM115, Hypoxia, 16h
4. WM266-4, Normoxia, 16h
5. WM266-4, Hypoxia, 16h