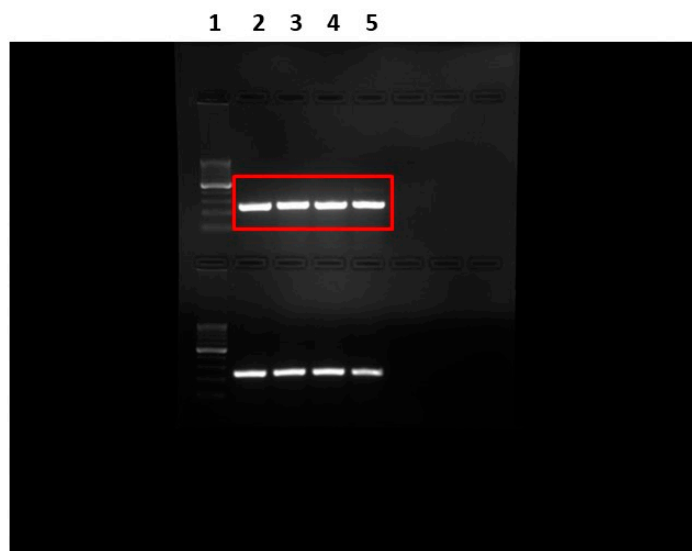


Supplementary Materials - Original images of RT-PCR and Western blot analysis (expression on mRNA and proteins levels).

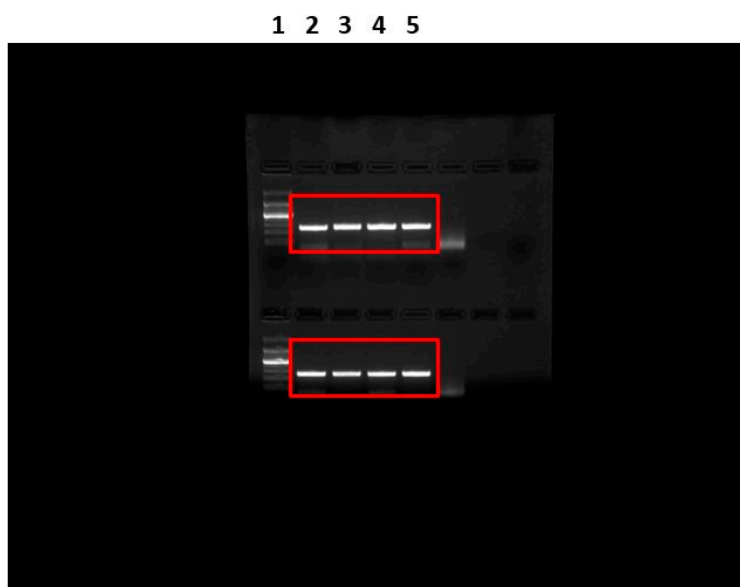
RT-PCR



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

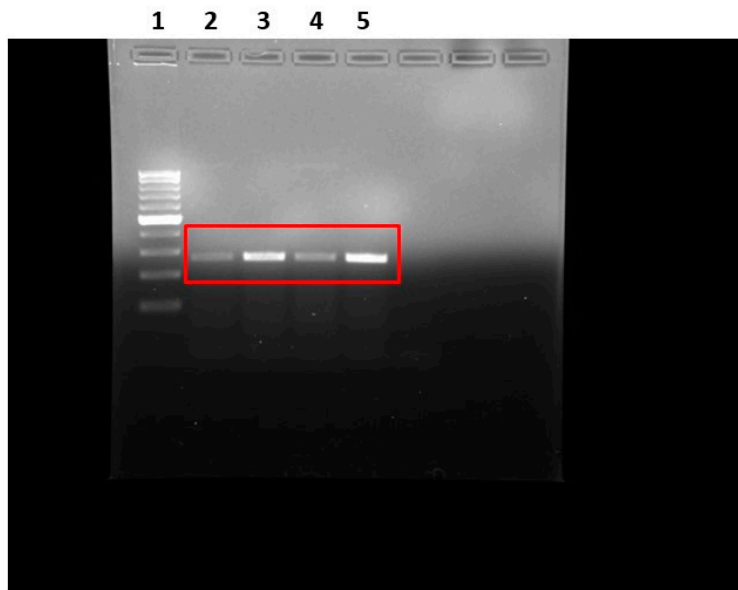
1. Molecular weight DNA ladder
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h

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

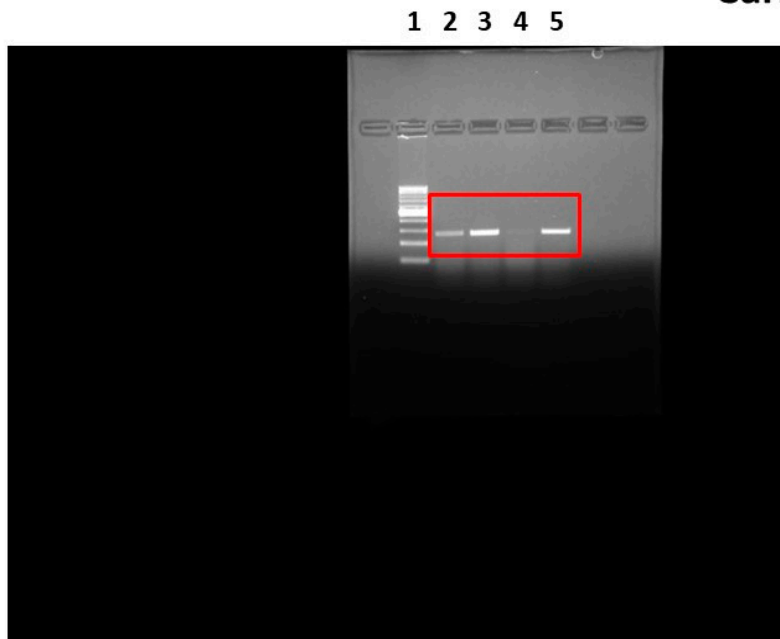


CAIX

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. 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. 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



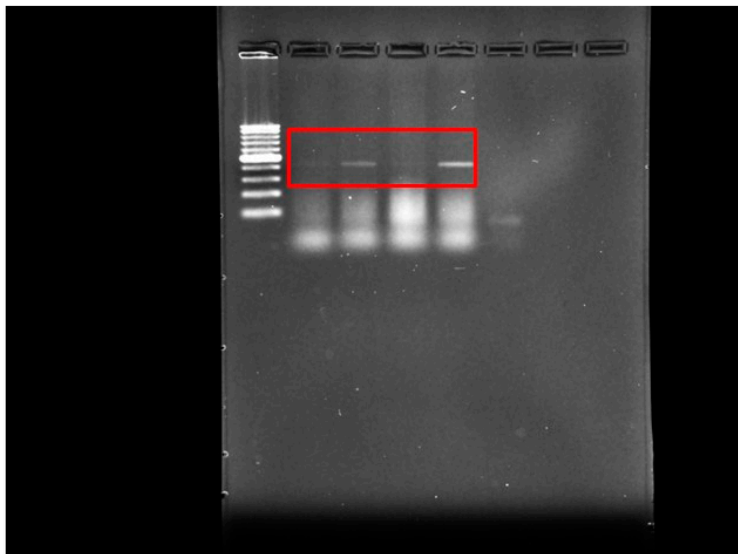
PFKFB4

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



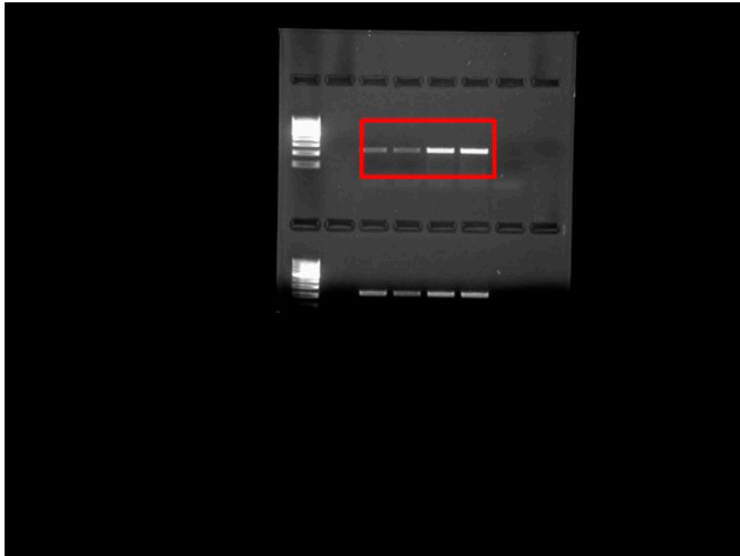
PFKFB4

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- β -synthase

1 2 3 4 5

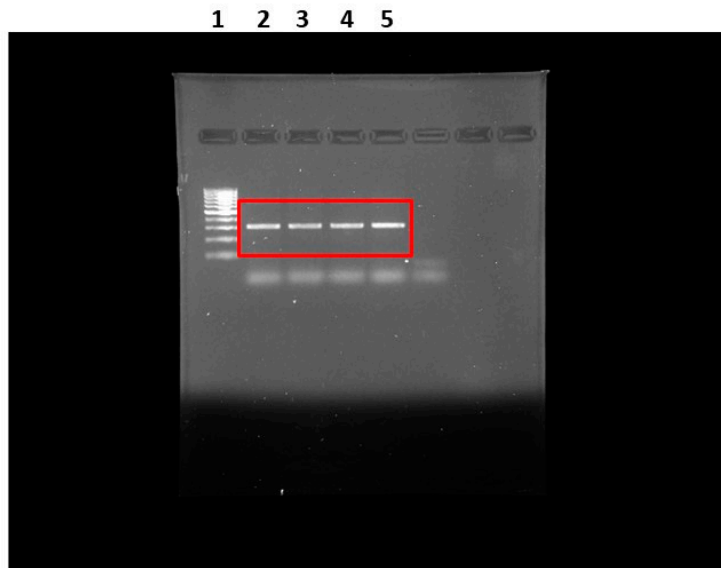


CBS

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

γ -Cystathionase

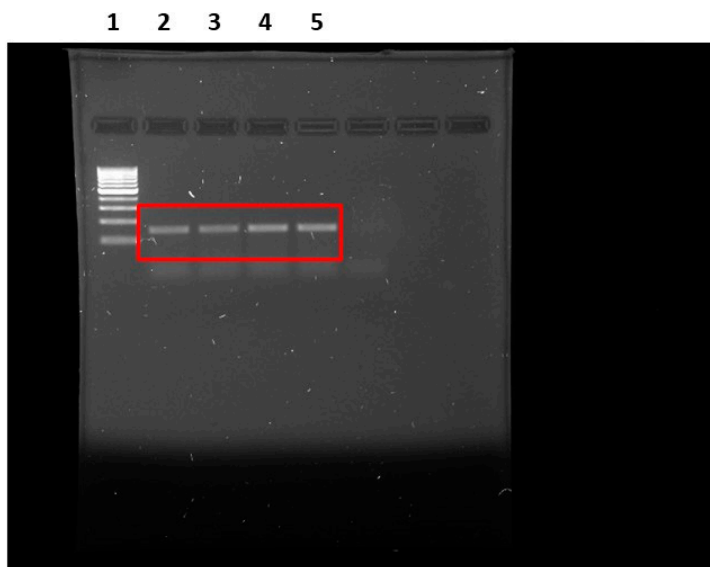


CTH

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

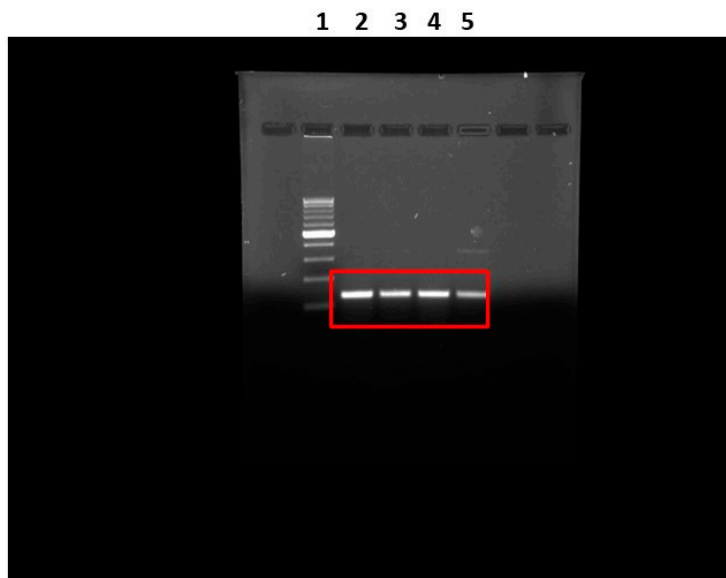
Thiosulfate sulfurtransferase



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

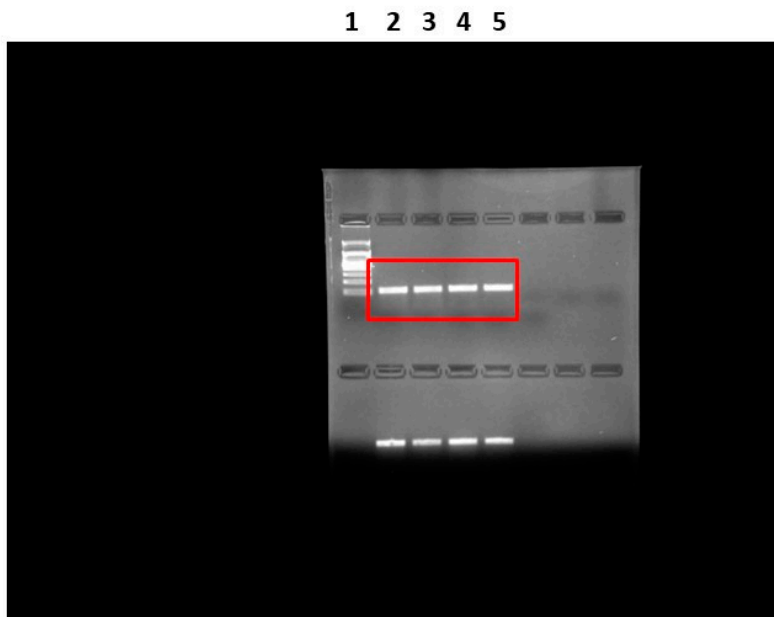


Thioredoxin reductase 1

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

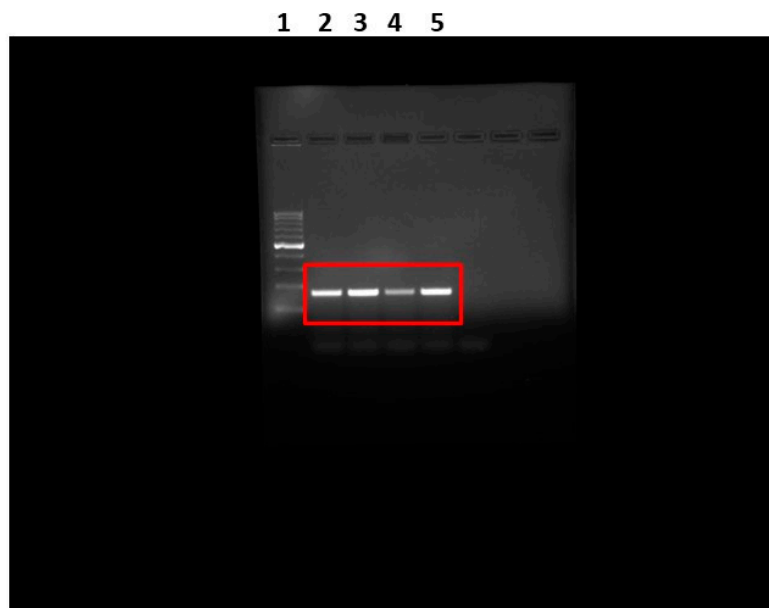


Thioredoxin

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



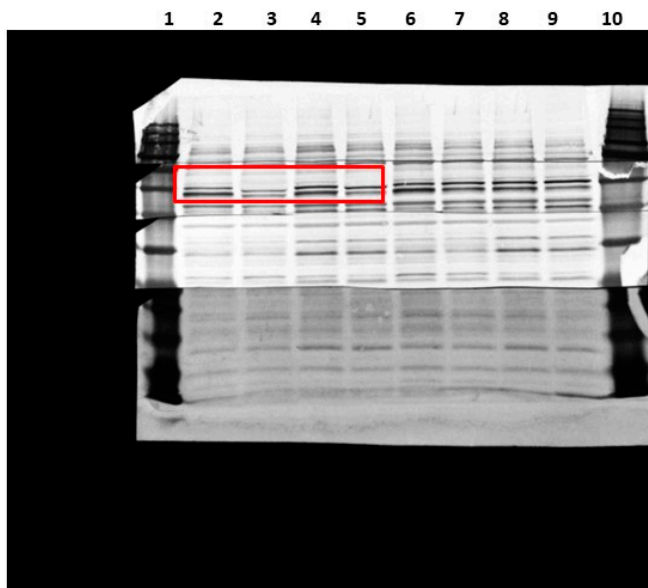
Glutathione peroxidase

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- β -synthase

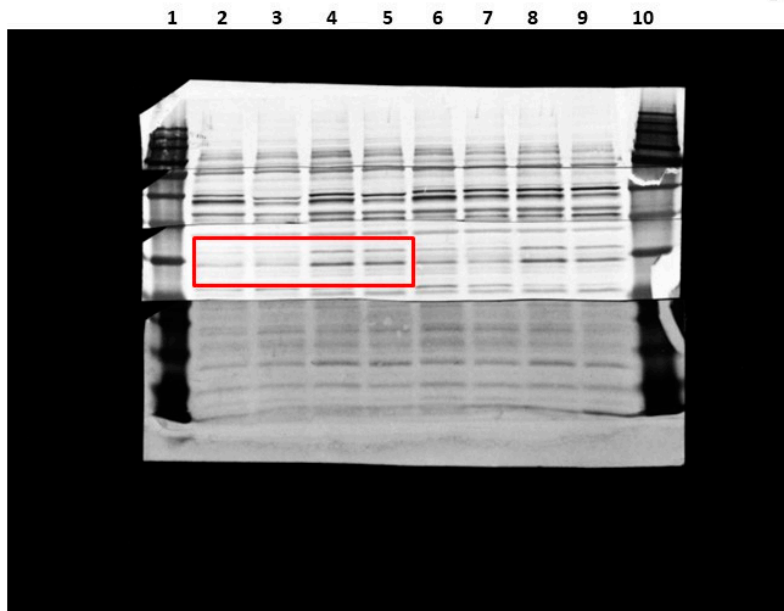


← CBS

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

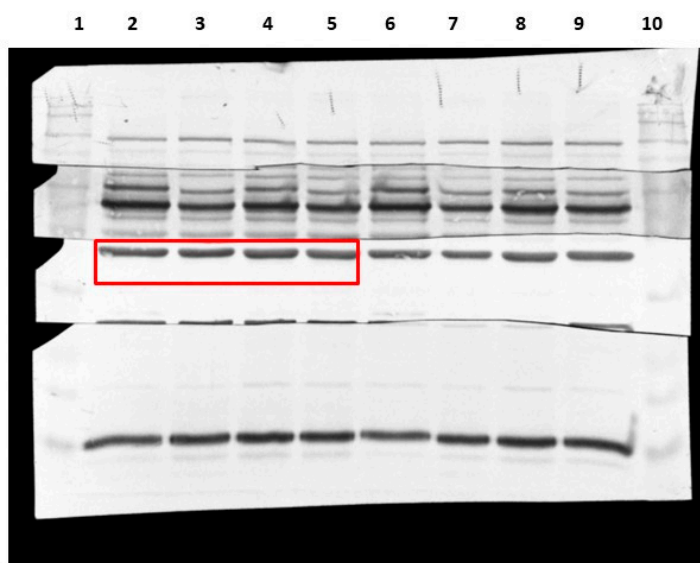


← MPST

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

γ -Cystathionase

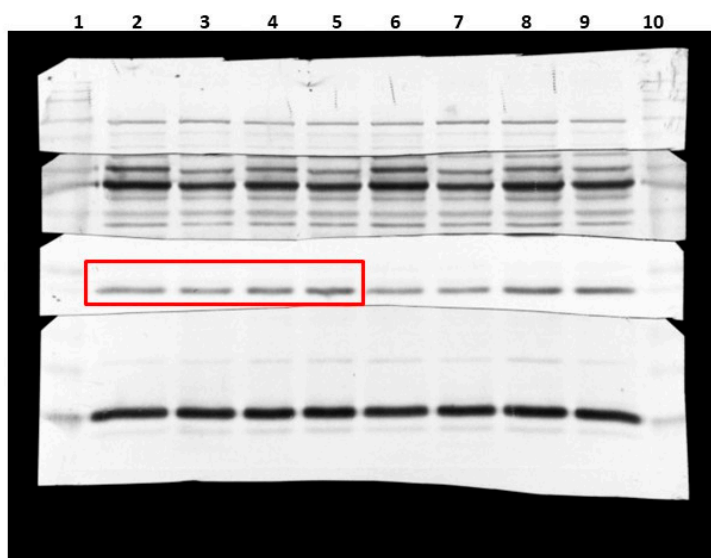


← CTH

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

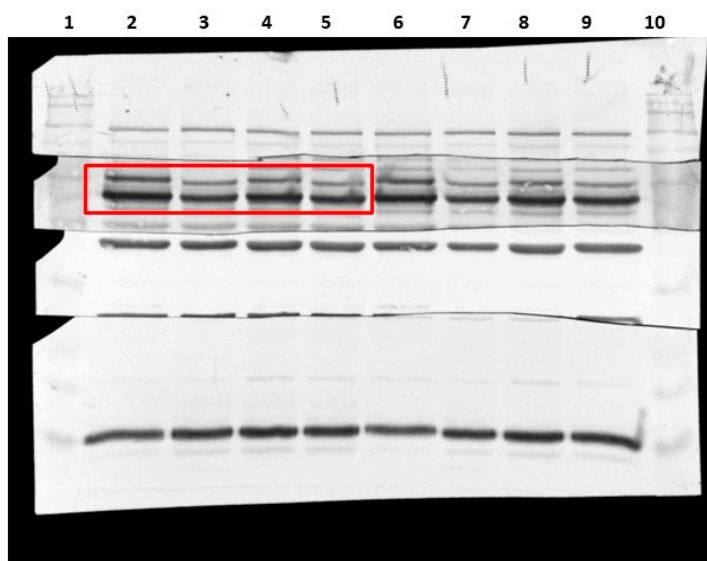
Thiosulfate sulfurtransferase



← 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

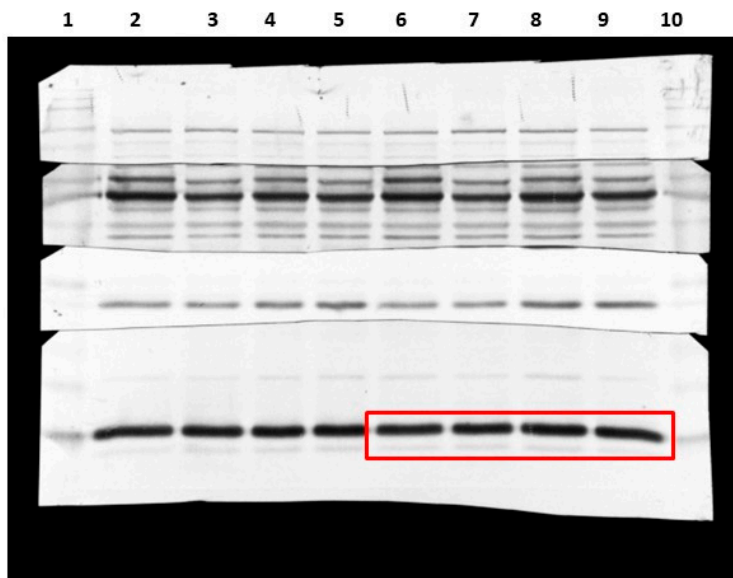


Thioredoxin reductase 1

← 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

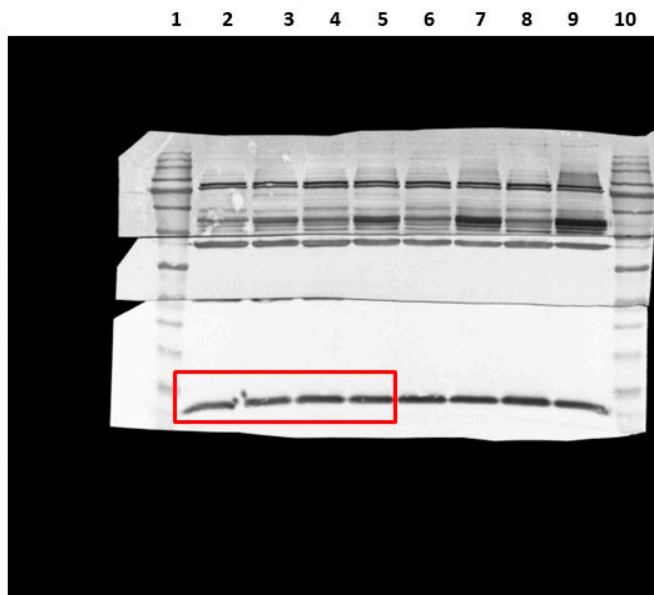


Superoxide dismutase 1

← 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

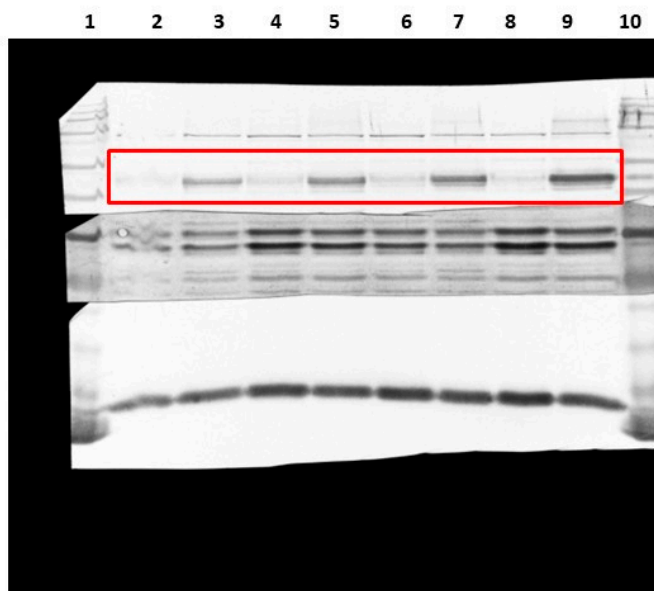


1. Molecular weight standard
2. WM115, Normoxia, 24h
3. WM115, Hypoxia, 24h
4. WM266-4, Normoxia, 24h
5. WM266-4, Hypoxia, 24h
6. WM115, Normoxia, 48h
7. WM115, Hypoxia, 48h
8. WM266-4, Normoxia, 48h
9. WM266-4, Hypoxia, 48h
10. Molecular weight standard

← TRX

Thioredoxin

WESTERN BLOT



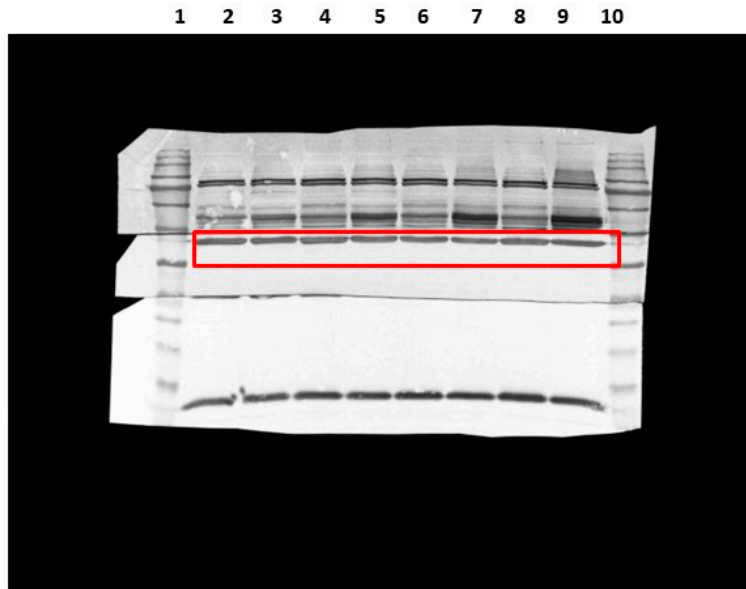
Carbonic anhydrase IX

← 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

β -actin

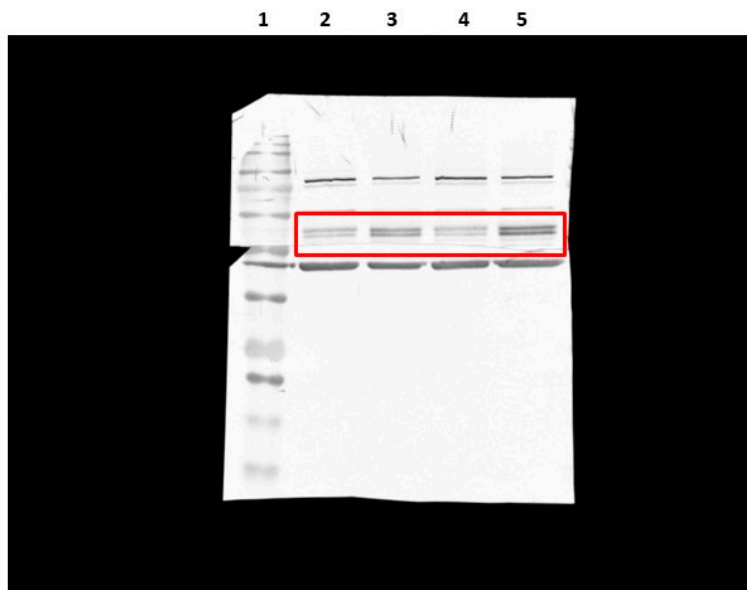


← β -actin

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

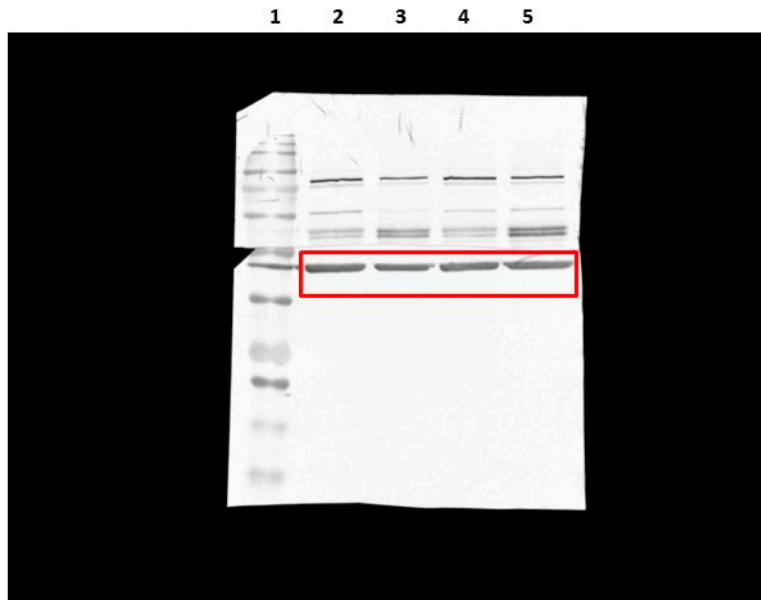


← CAIX

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

WESTERN BLOT

β -actin



← β -actin

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