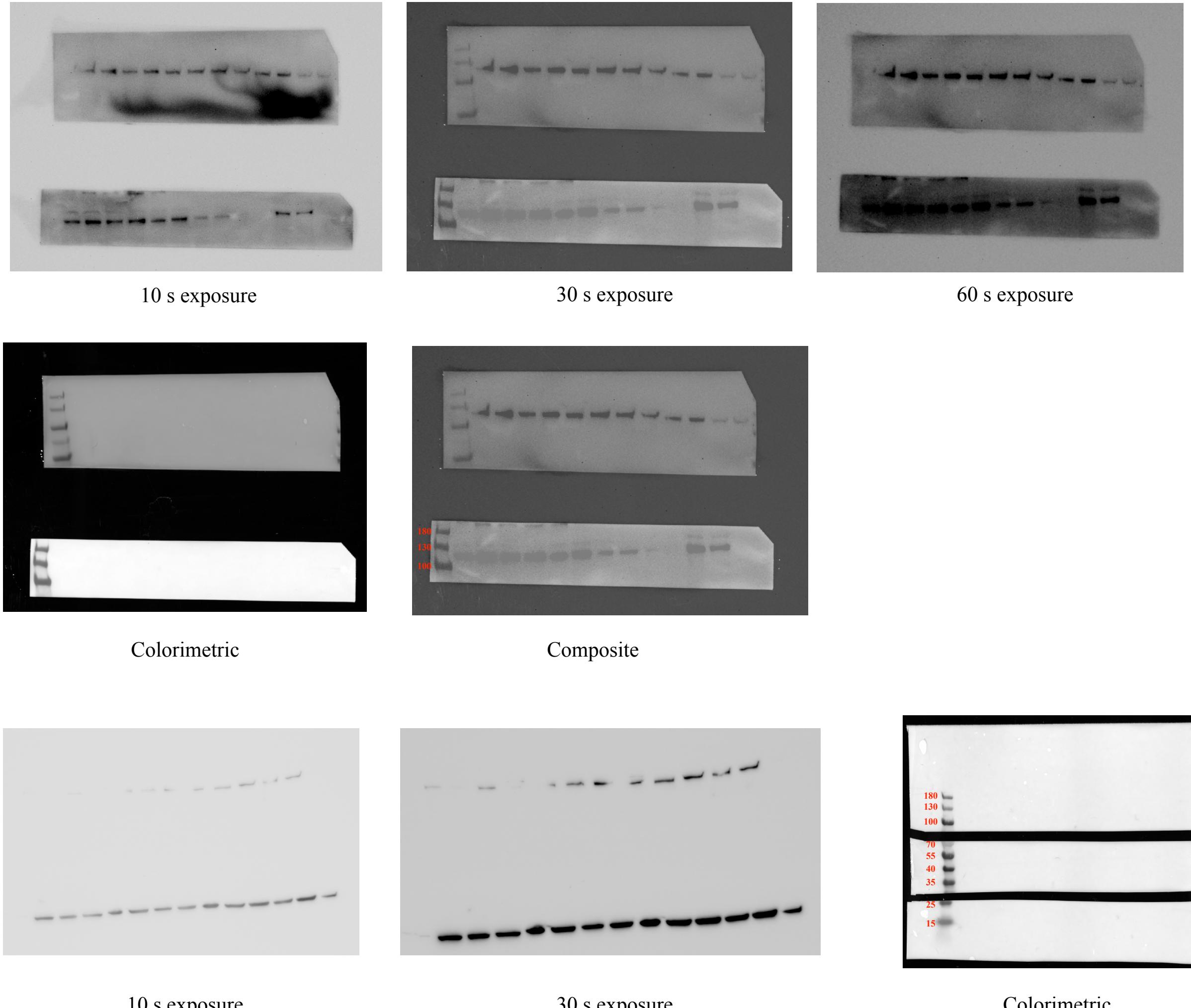


# Supplementary Figure 1

1. Marker
2. Ctrl 24h
3. -Tyr/Phe 24h
4. -Gln 24h
5. -Tyr/Phe/Gln 24h
6. Ctrl 48h
7. -Tyr/Phe 48h
8. -Gln 48h
9. -Tyr/Phe/Gln 48h
10. Ctrl 72h
11. -Tyr/Phe 72h
12. -Gln 72h
13. -Tyr/Phe/Gln 72h

Samples were loaded into gels in this order.

**a- Western blot analysis of HK2 and  $\beta$ -Actin in G-401 cell line after 24, 48 and 72 h of amino acids deprivation**



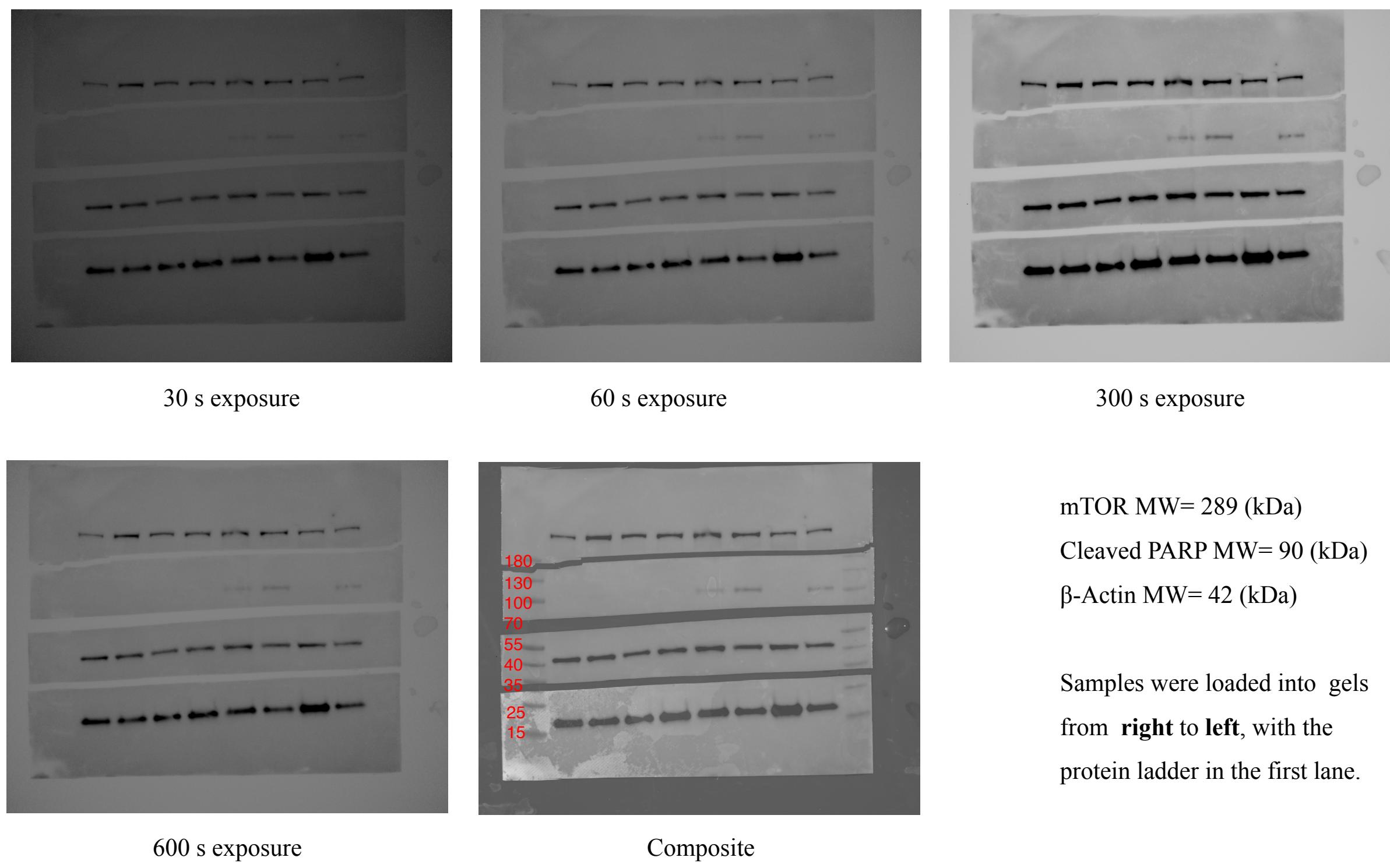
HK2 MW= 100 (kDa)

$\beta$ -Actin MW= 42 (kDa)

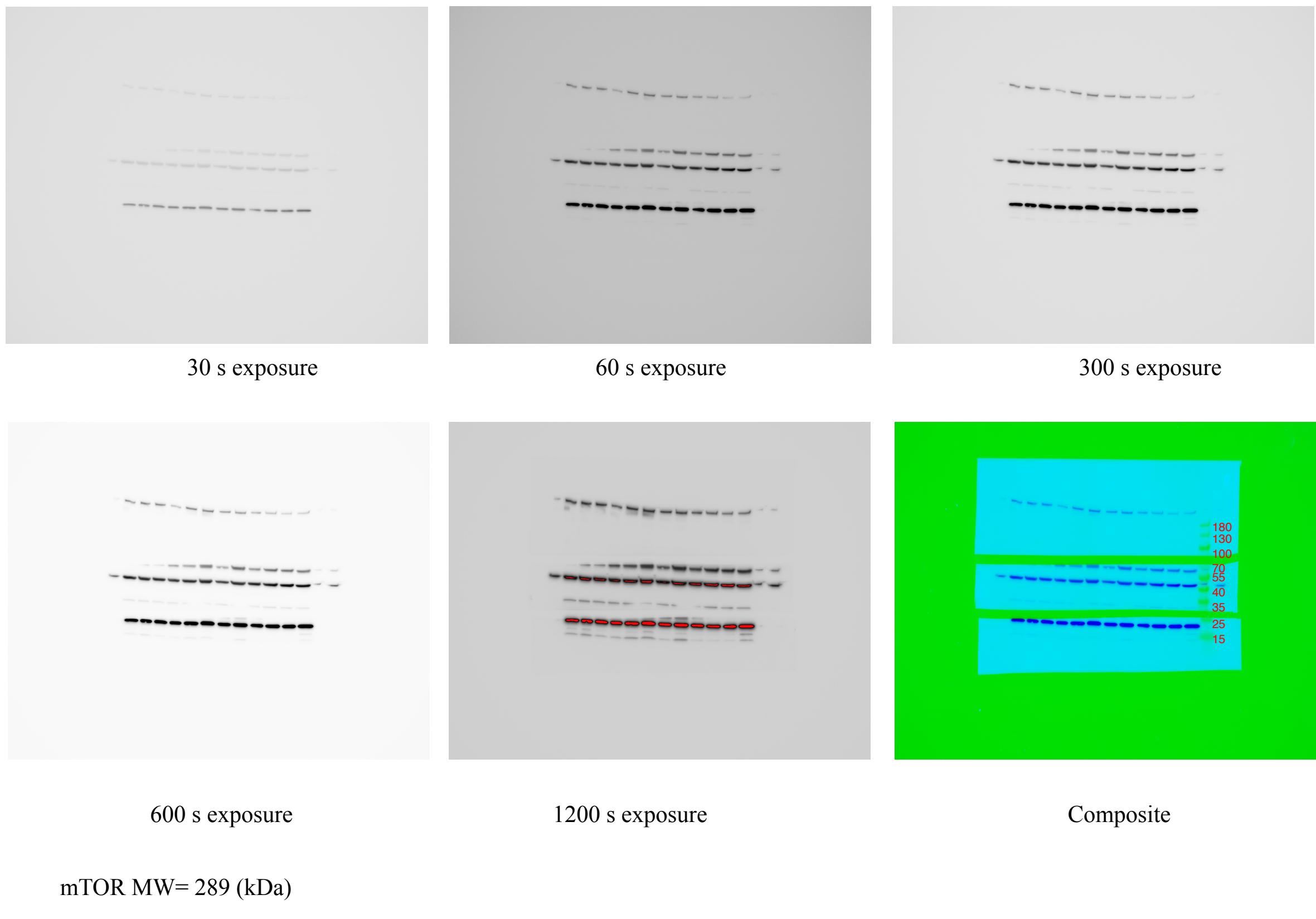
Samples were loaded into gels from **left to right**, with the protein ladder in the first lane.

The down gel has been considered for the paper.

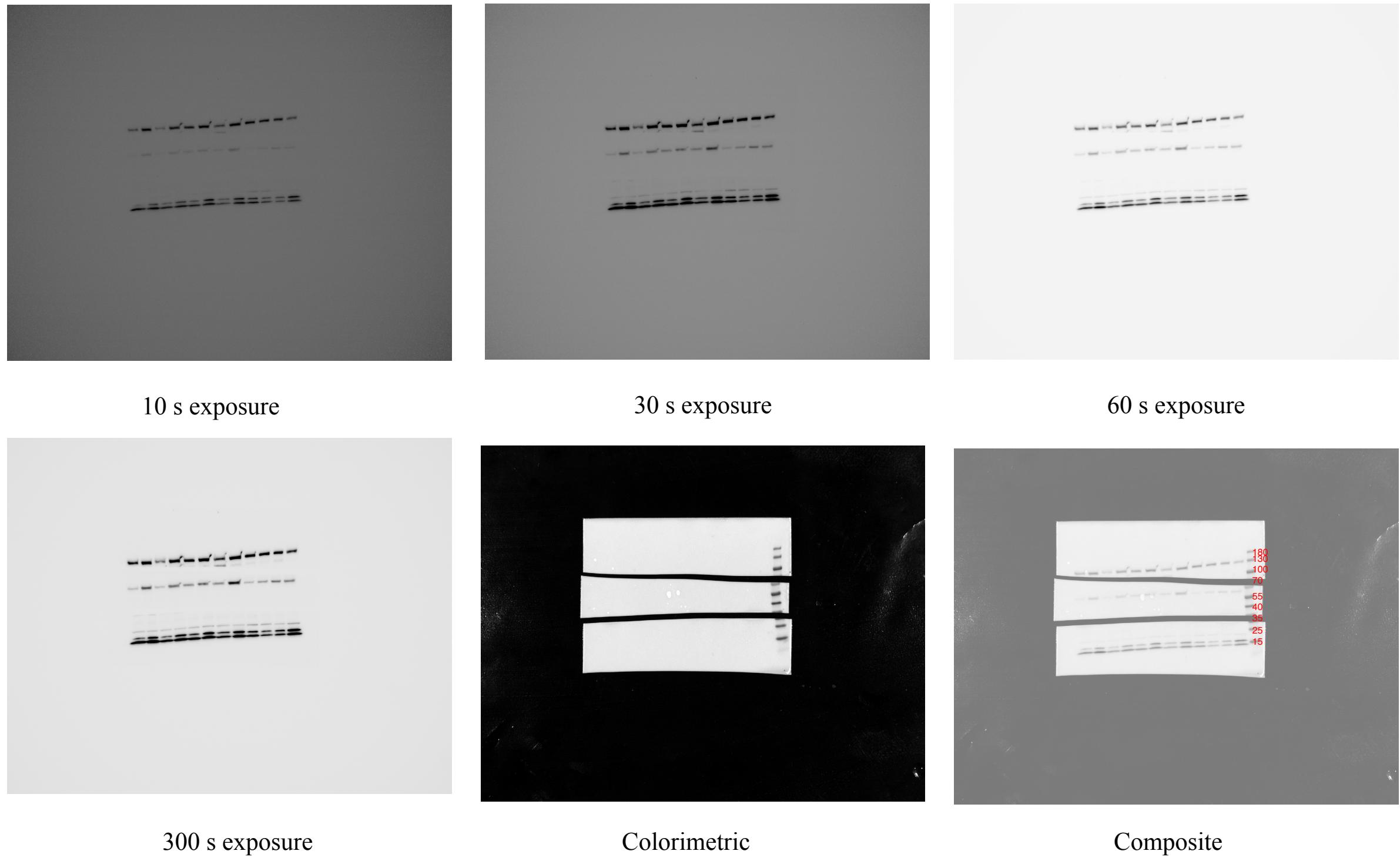
**b- Western blot analysis of mTOR, Cleaved-PARP and  $\beta$ -Actin in G-401 cell line after 24 and 72 h of amino acids deprivation**



**Western blot analysis of mTOR and  $\beta$ -Actin in G-401 cell line after 24 and 48 h of amino acids deprivation**



**C- Western blot analysis of LC3I-II B and  $\beta$ -Actin in G-401 cell line after 24, 48 and 72 h of amino acids deprivation**

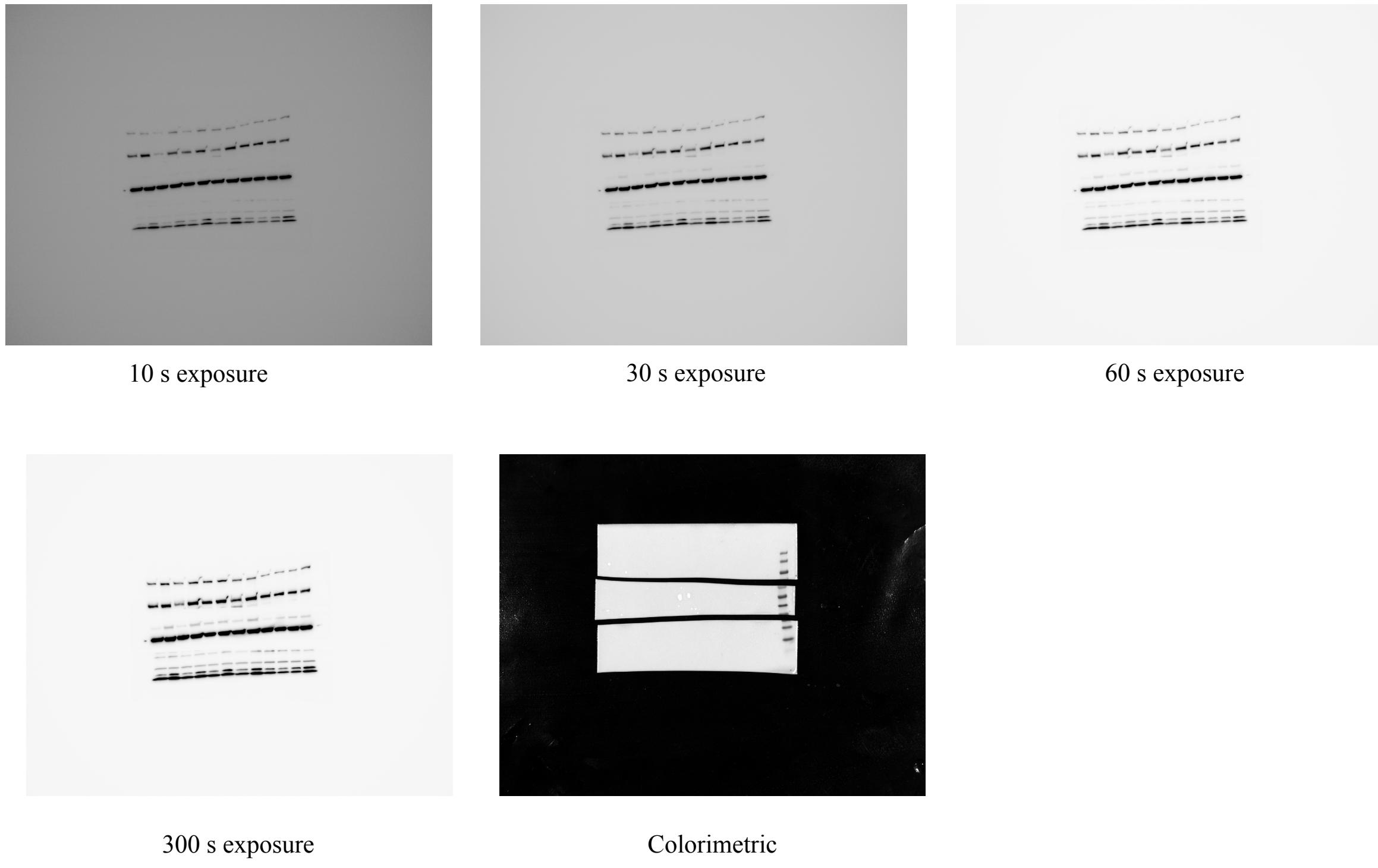


LC3I-II B MW= 14, 16 (kDa)

$\beta$ -Actin MW= 42 (kDa)

Samples were loaded into gels from **left to right**, with the protein ladder in the first lane.

**Western blot analysis of LC3I-II B and  $\beta$ -Actin in G-401 cell line after 24, 48 and 72 h of amino acids deprivation**

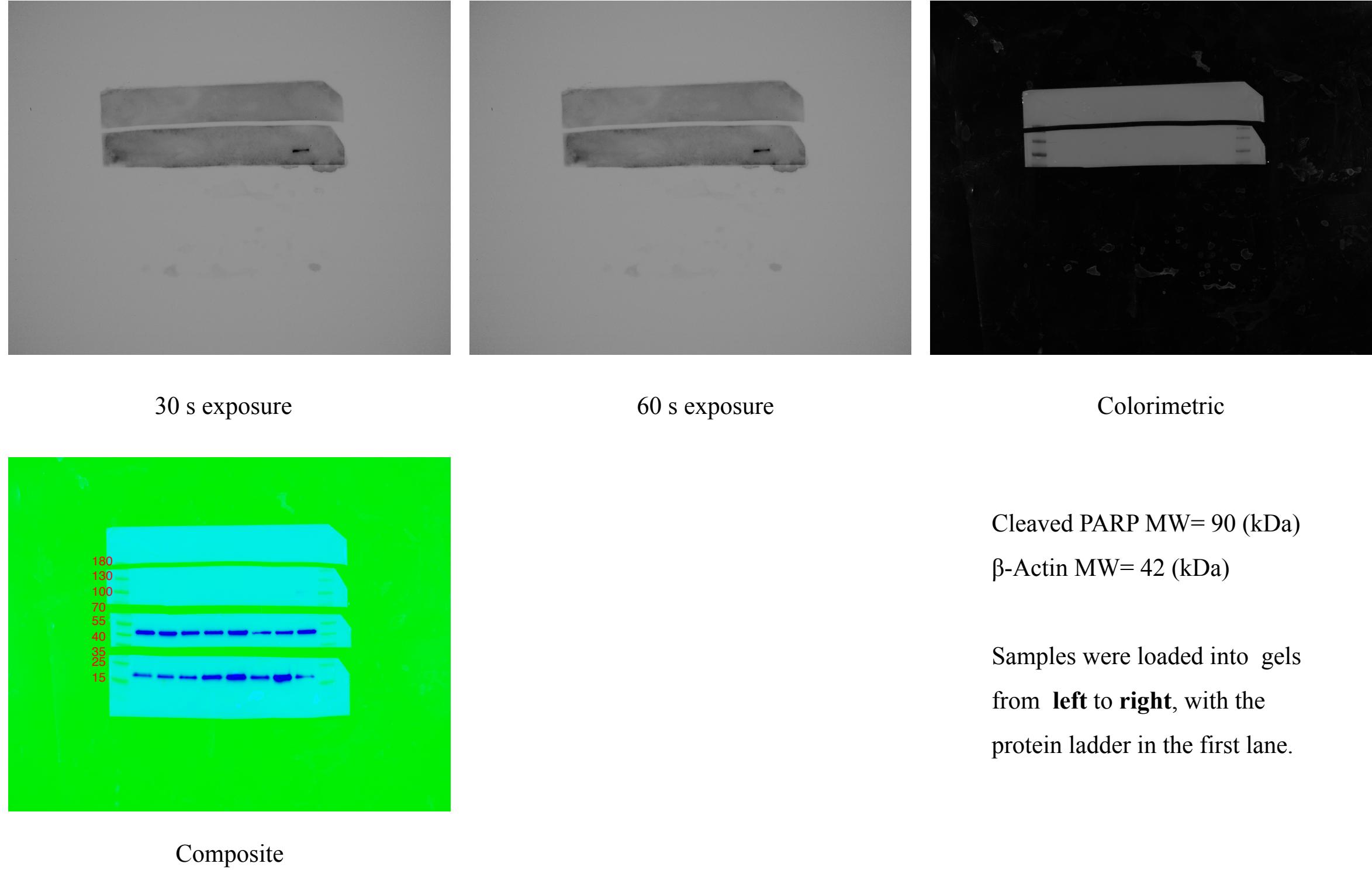


LC3I-II B MW= 14, 16 (kDa)

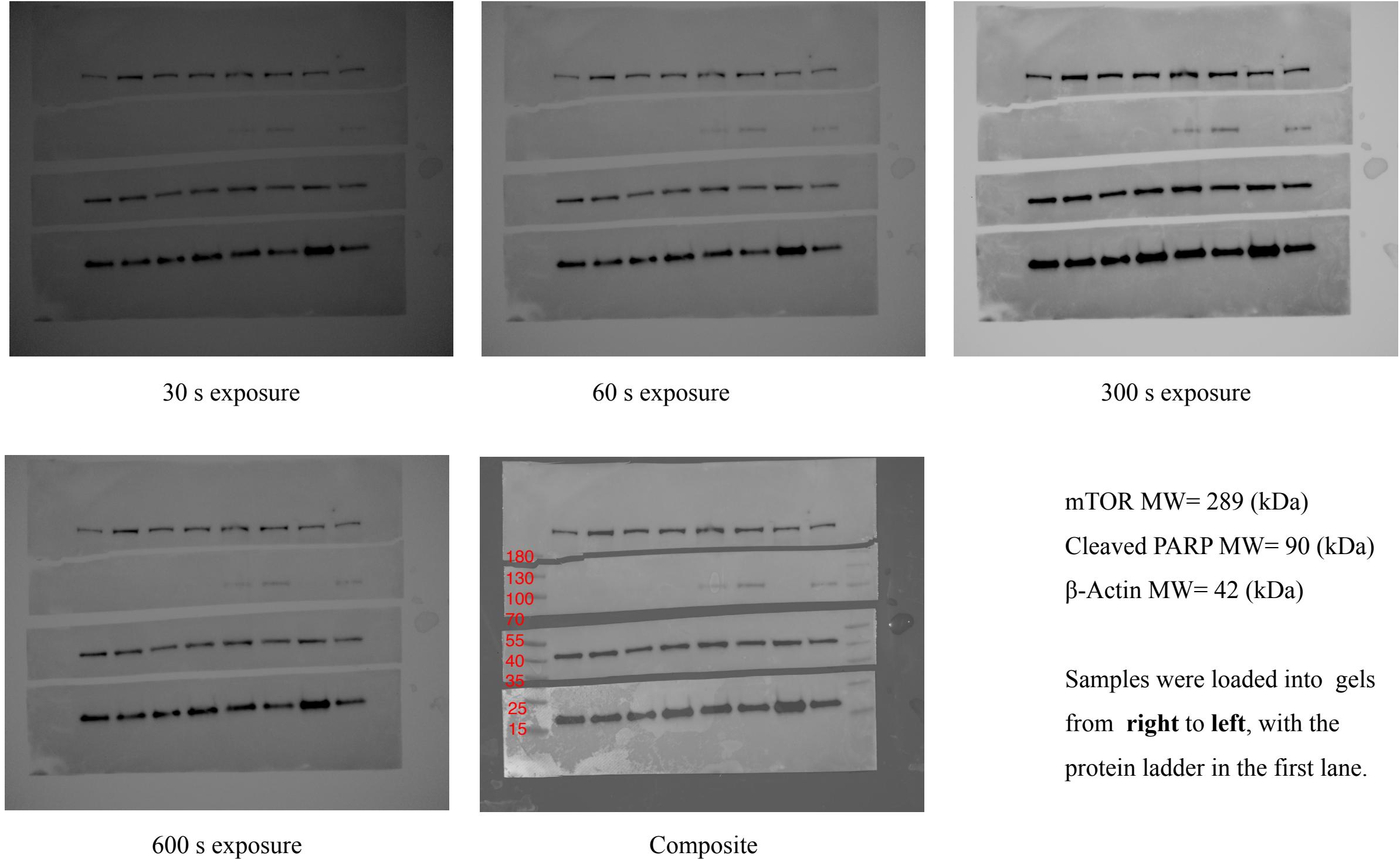
$\beta$ -Actin MW= 42 (kDa)

Samples were loaded into gels from **right to left**, with the protein ladder in the first lane.

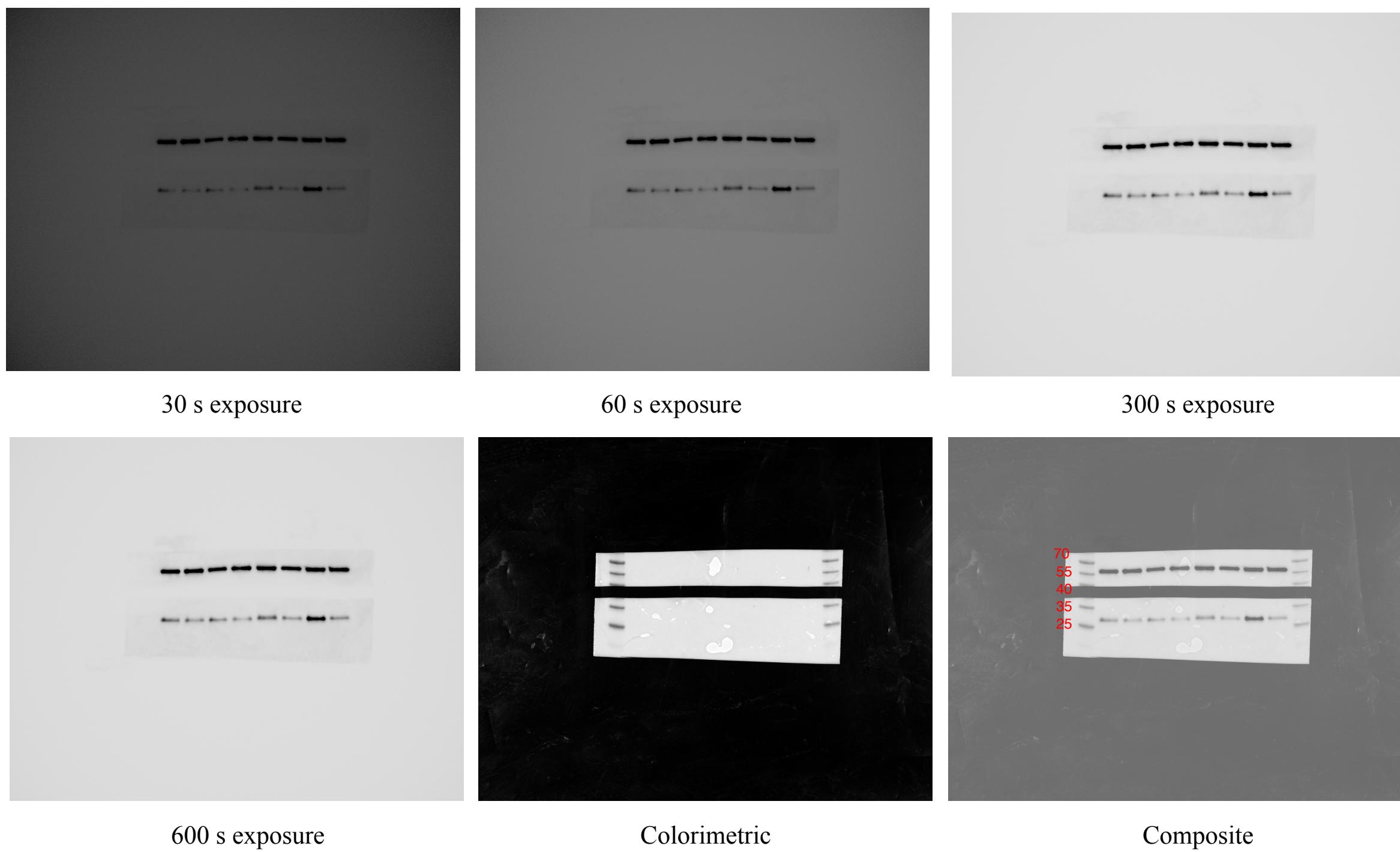
**d- Western blot analysis of Cleaved PARP and  $\beta$ -Actin in G-401 cell line after 24 and 48 h of amino acids deprivation**



**Western blot analysis of mTOR, Cleaved-PARP and  $\beta$ -Actin in G-401 cell line after 24 and 72 h of amino acids deprivation**



**e- Western blot analysis of p21 and  $\beta$ -Actin in G-401 cell line after 24 and 72 h of amino acids deprivation**



Samples were loaded into gels from **left to right**, with the protein ladder in the first lane.

**Western blot analysis of p21 and  $\beta$ -Actin in G-401 cell line after 24 and 48 h of amino acids deprivation**

