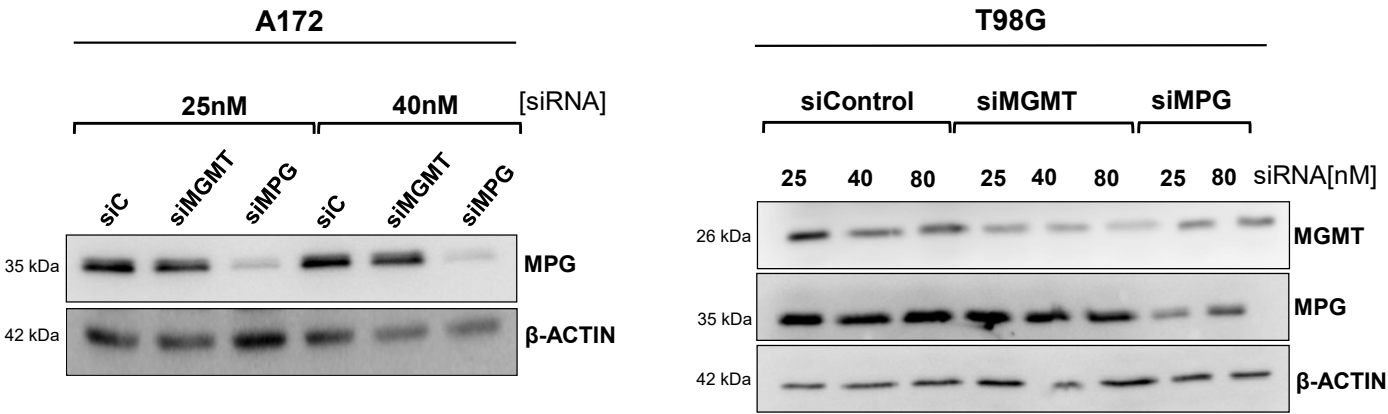
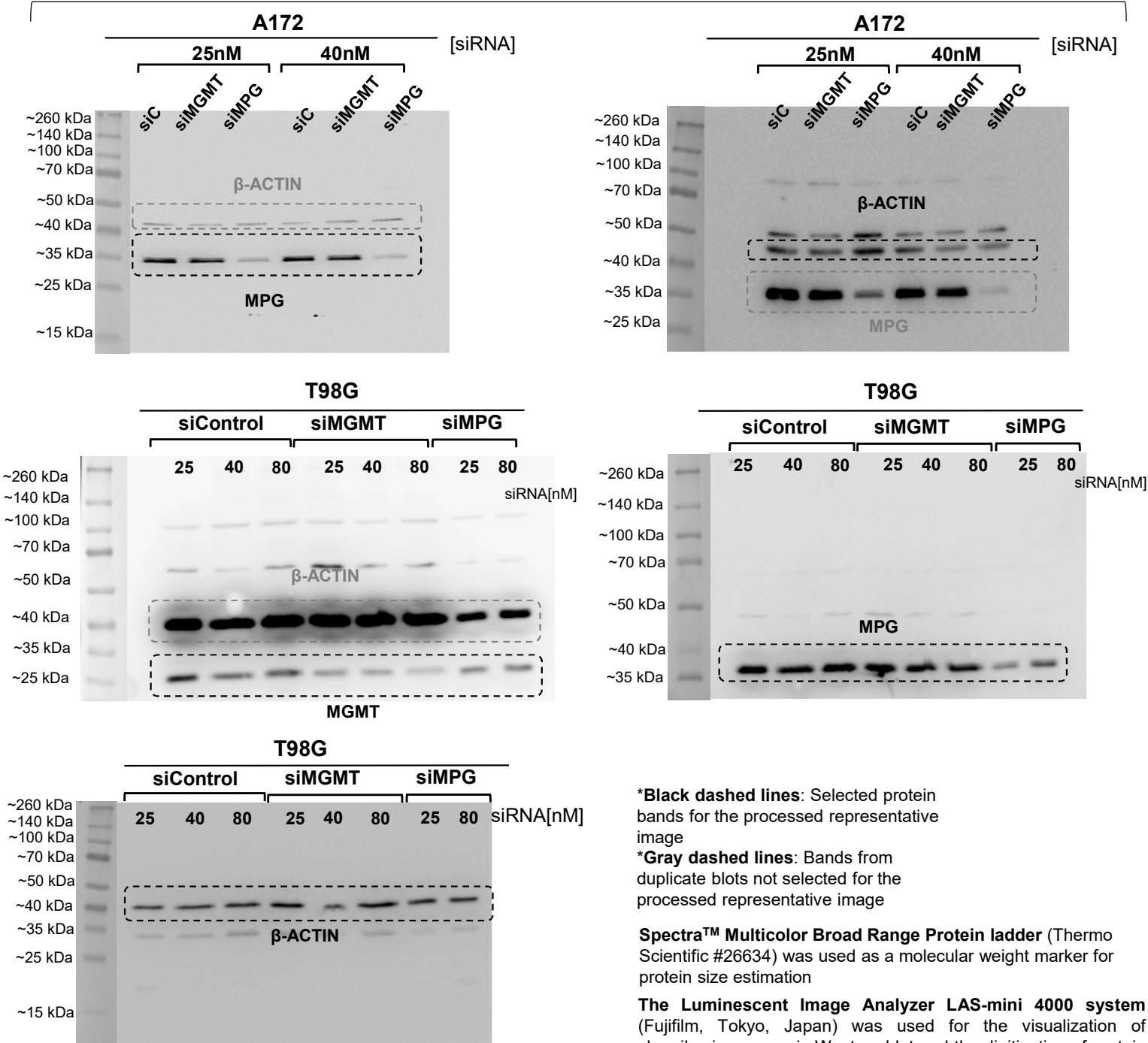
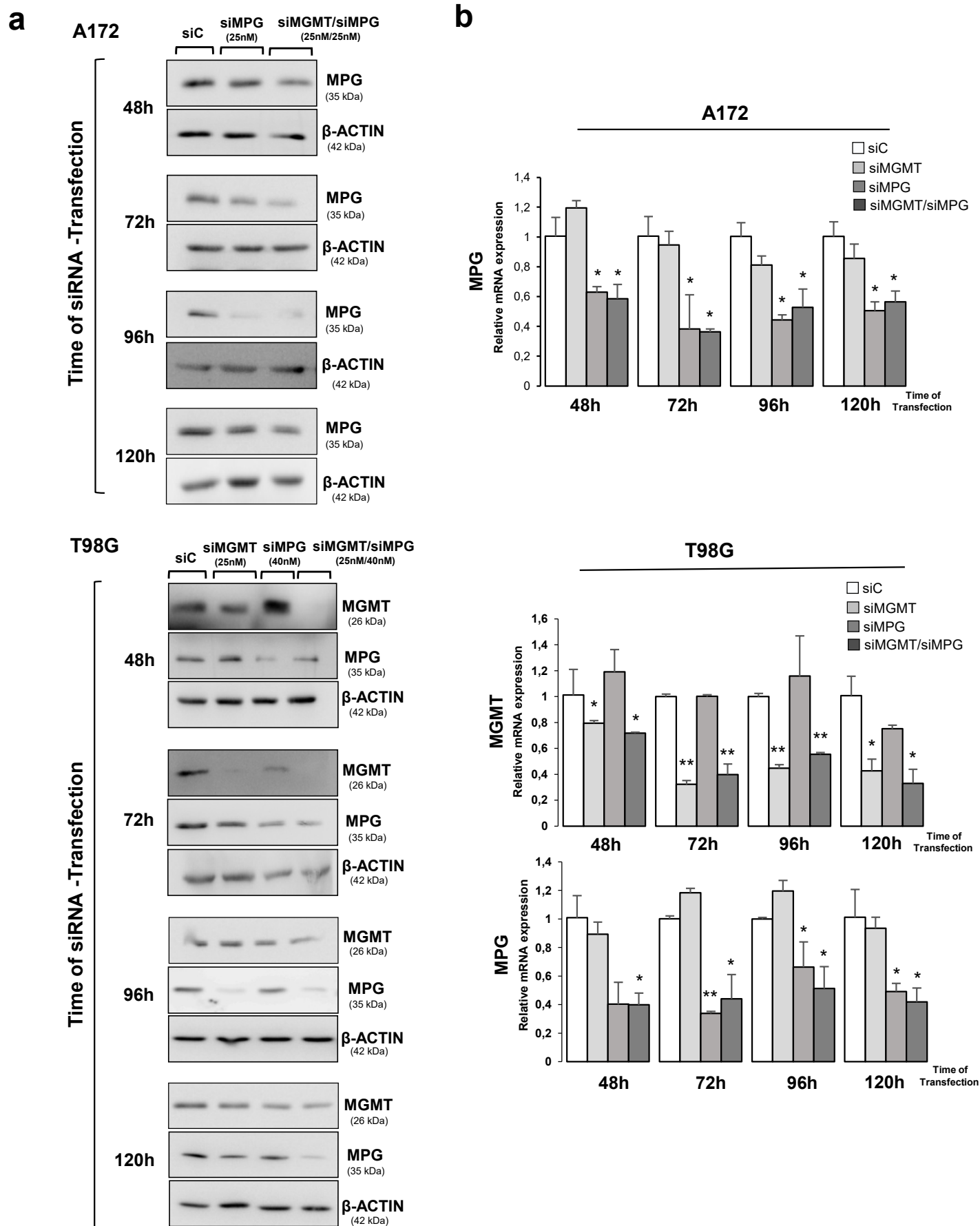




Supplementary Figure s1. Optimization of siRNA concentrations for MGMT and MPG inhibition in glioblastoma cell lines. MGMT and MPG protein levels were analyzed by Western blot in glioblastoma cells treated with varying siRNA concentrations for 48hours. The grouped blots were cropped from different Western blot experiments, with β -actin as the loading control (the original blots are shown below)

ORIGINAL BLOTS



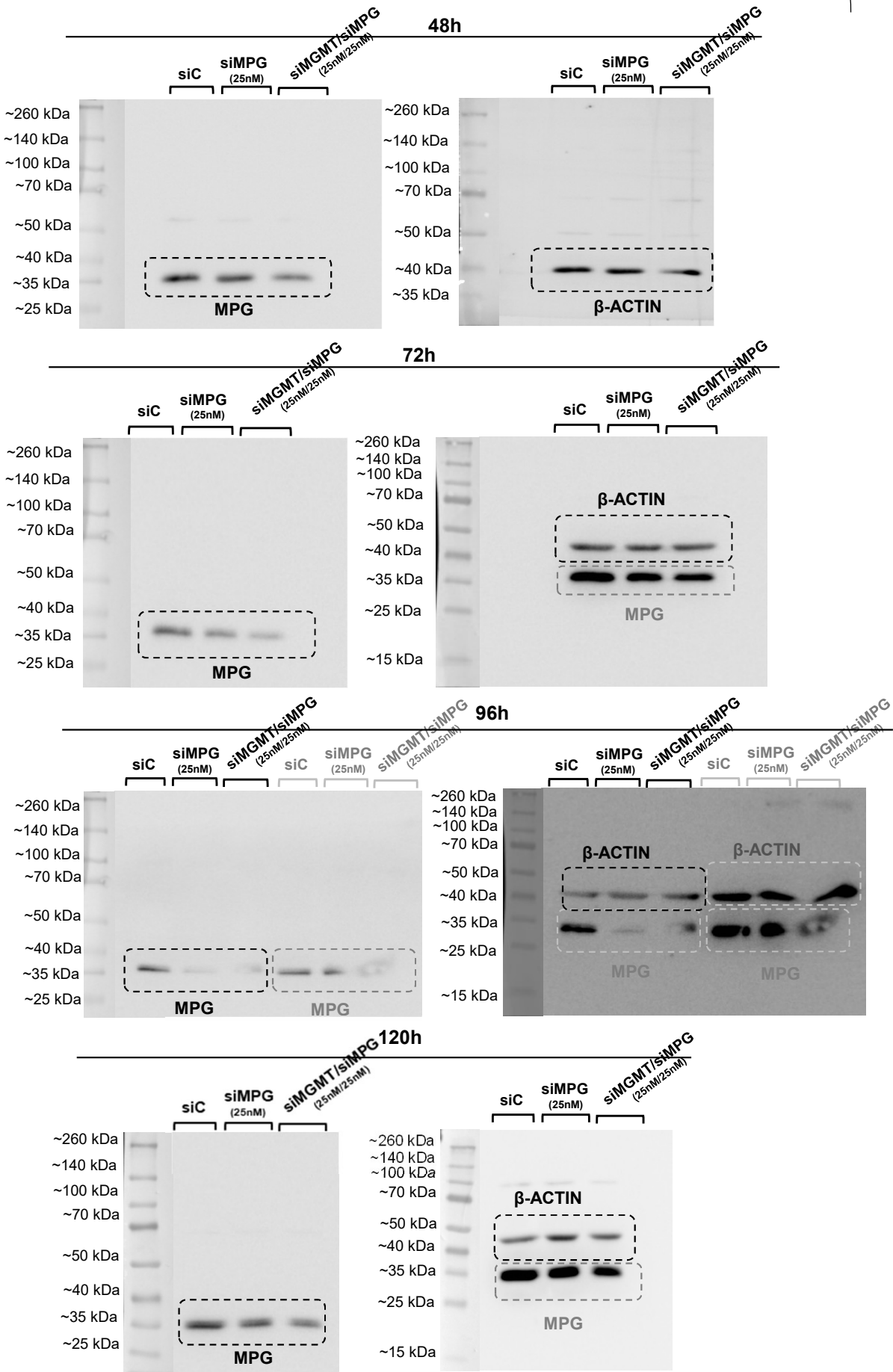


Supplementary Figure s2. Effect of post-transfection time on MGMT and MPG silencing. (a) Western blot analysis of MPG and MGMT protein expression in siRNA-treated A172 (25 nM MPG) and siRNA-treated T98G cells (40 nM MPG, 25 nM MGMT), incubated for the indicated times. The grouped blots were cropped from different Western blot experiments, with β -actin as the loading control (The original blots are shown on the next pages) (b) MGMT and MPG mRNA levels were determined by qRT-PCR in A172 and T98G cells transfected with scrambled (siC) or specific siRNAs, and normalized to GAPDH mRNA from untransfected cells at 48 hours. Results are shown as mean $\pm$ SD from three independent experiments. Student's t-test or Mann-Whitney U test: * $p < 0.05$, ** $p < 0.01$ compared to siC.

ORIGINAL BLOTS

A172

Time of siRNA -Transfection



***Black dashed lines:** Selected protein bands for the processed representative image

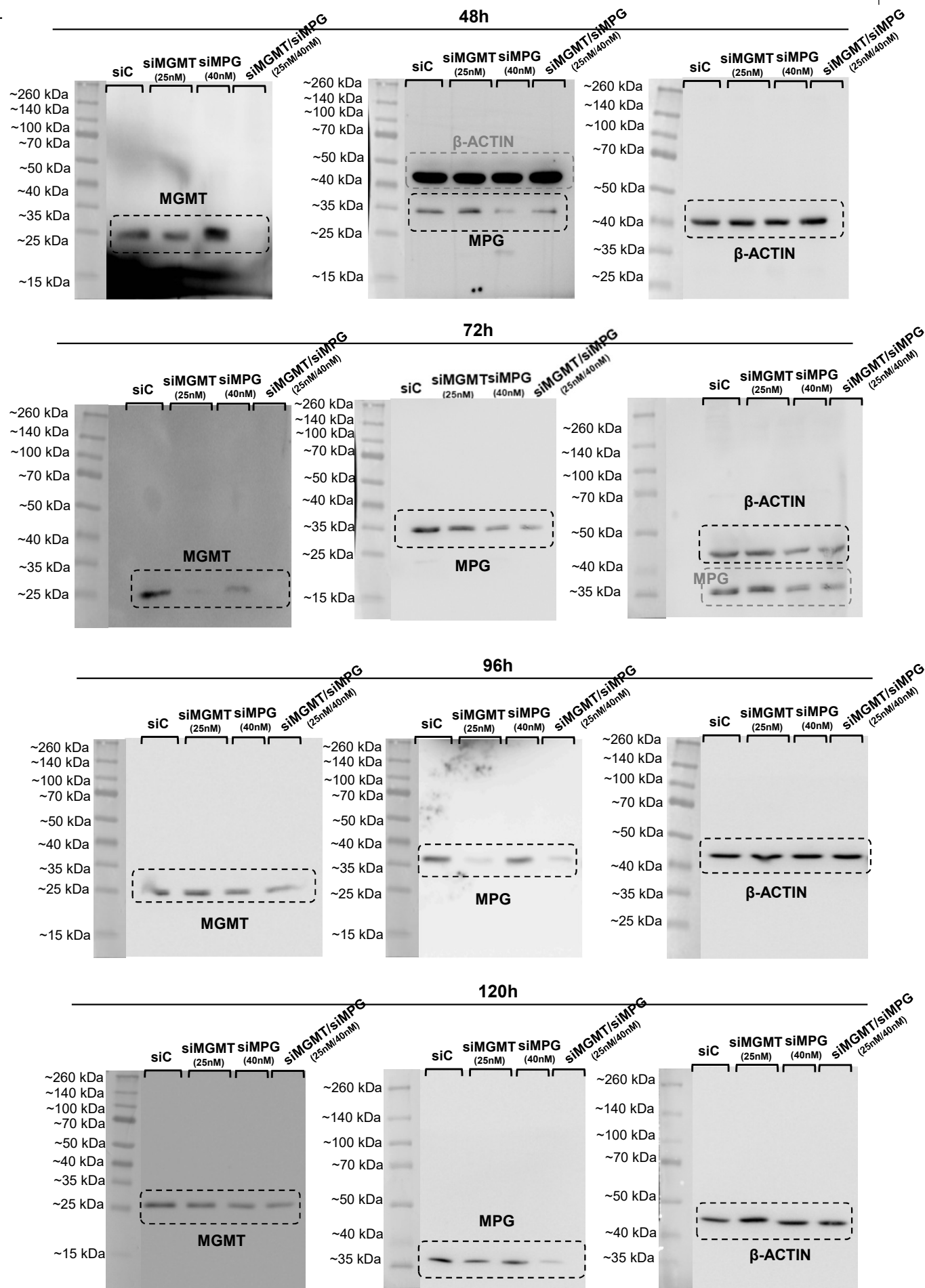
***Gray dashed lines:** Bands from duplicate blots not selected for the processed representative image

Spectra™ Multicolor Broad Range Protein ladder (Thermo Scientific #26634) was used as a molecular weight marker for protein size estimation

The Luminescent Image Analyzer LAS-mini 4000 system (Fujifilm, Tokyo, Japan) was used for the visualization of chemiluminescence in Western blot and the digitization of protein ladders

T98G

Time of siRNA -Transfection



***Black dashed lines:** Selected protein bands for the processed representative image

***Gray dashed lines:** Bands from duplicate blots not selected for the processed representative image

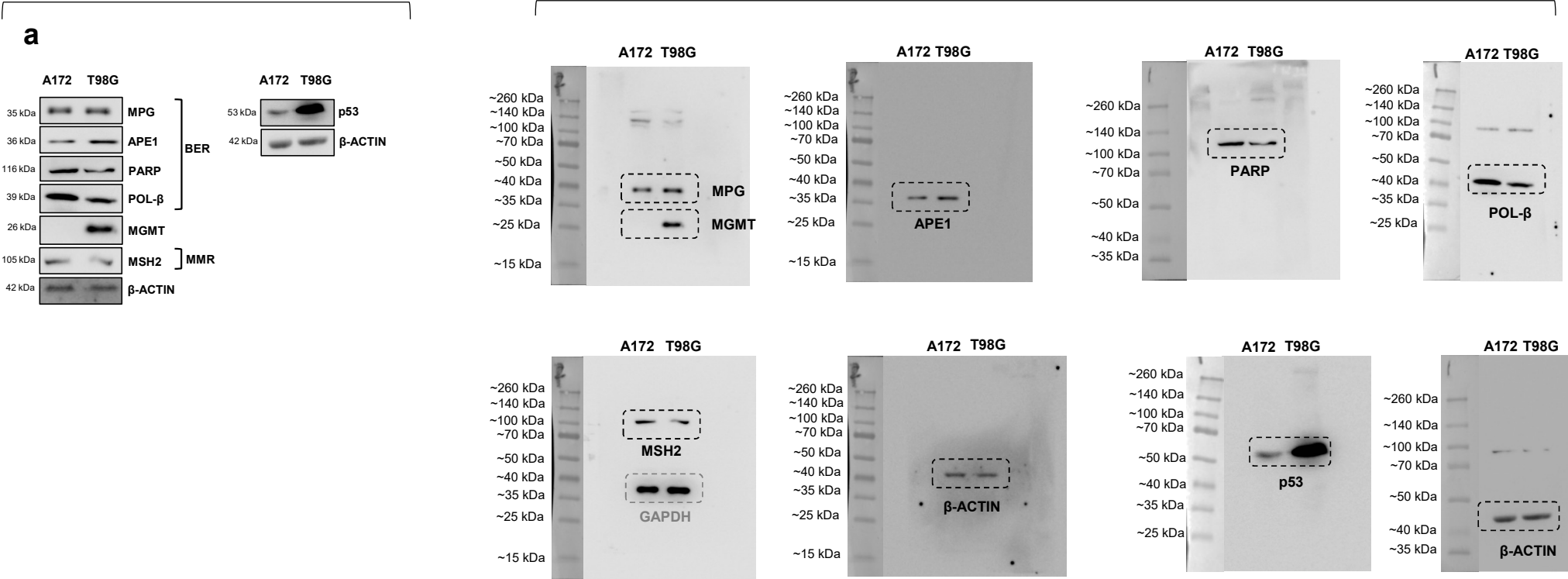
Spectra™ Multicolor Broad Range Protein ladder (Thermo Scientific #26634) was used as a molecular weight marker for protein size estimation

The Luminescent Image Analyzer LAS-mini 4000 system (Fujifilm, Tokyo, Japan) was used for the visualization of chemiluminescence in Western blot and the digitization of protein ladders

Supplementary material: Figure s3

- **Spectra™ Multicolor Broad Range Protein ladder** (Thermo Scientific #26634) was used as a molecular weight marker for protein size estimation
- **The Luminescent Image Analyzer LAS-mini 4000 system** (Fujifilm, Tokyo, Japan) was used for the visualization of chemiluminescence in Western blot and the digitization of protein ladders

Figure 1



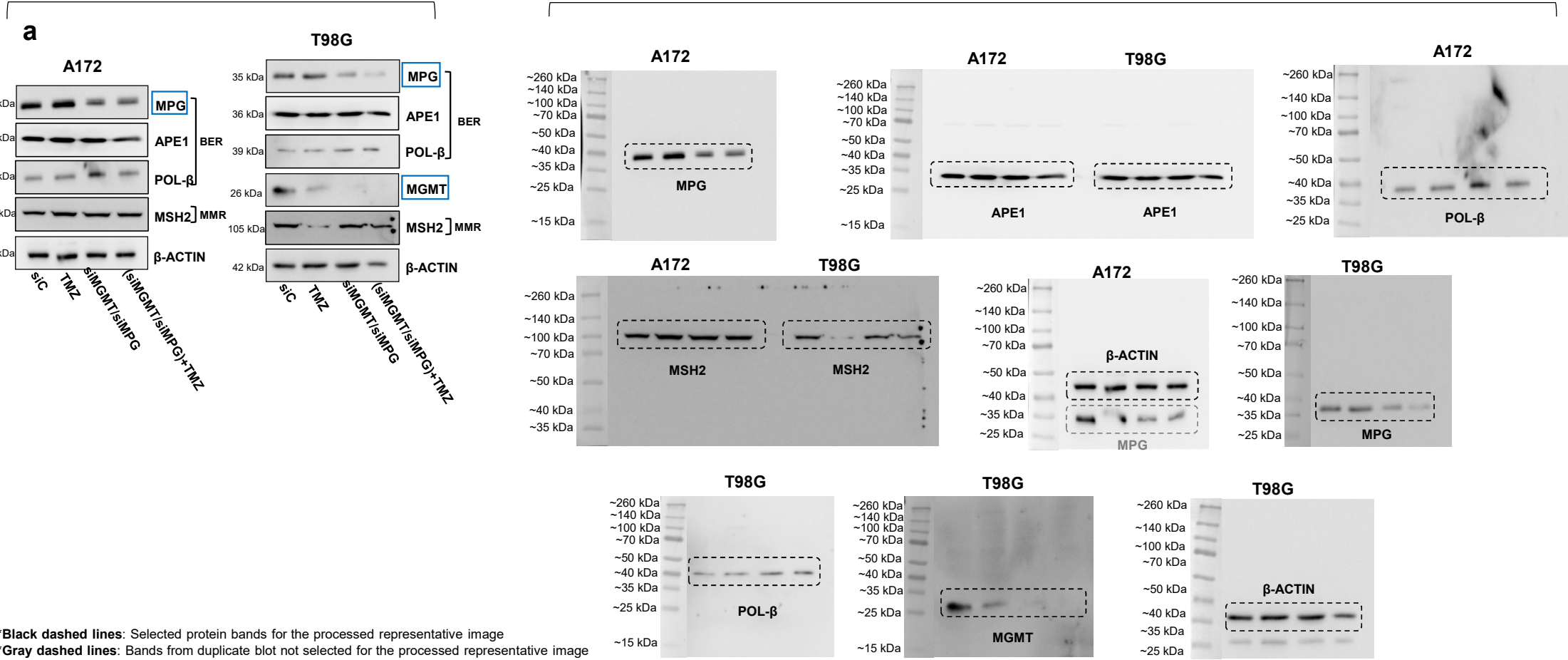
***Black dashed lines:** Selected protein bands for the processed representative image
***Gray dashed lines:** Additional data not selected for the processed representative image

Supplementary material: Figure s4

- **Spectra™ Multicolor Broad Range Protein ladder** (Thermo Scientific #26634) was used as a molecular weight marker for protein size estimation
- **The Luminescent Image Analyzer LAS-mini 4000 system** (Fujifilm, Tokyo, Japan) was used for the visualization of chemiluminescence in Western blot and the digitization of protein ladders

Figure 2

ORIGINAL BLOTS



Supplementary material: Figure s5

- **Spectra™ Multicolor Broad Range Protein ladder** (Thermo Scientific #26634) was used as a molecular weight marker for protein size estimation
- **The Luminescent Image Analyzer LAS-mini 4000 system** (Fujifilm, Tokyo, Japan) was used for the visualization of chemiluminescence in Western blot and the digitization of protein ladders

Figure 3

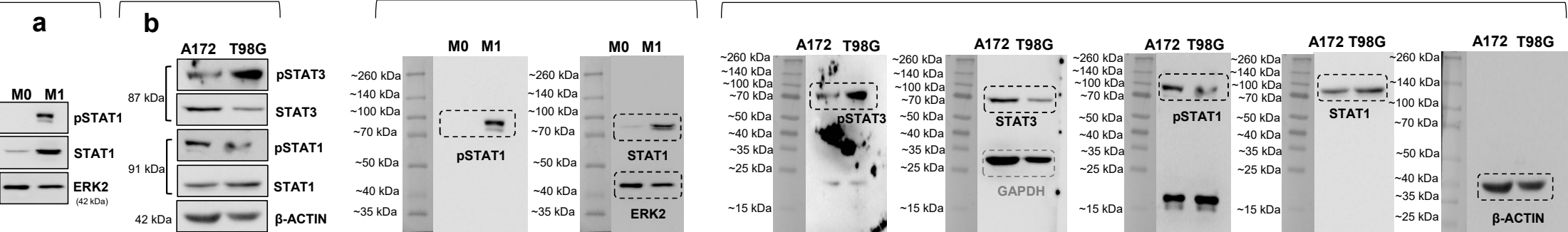
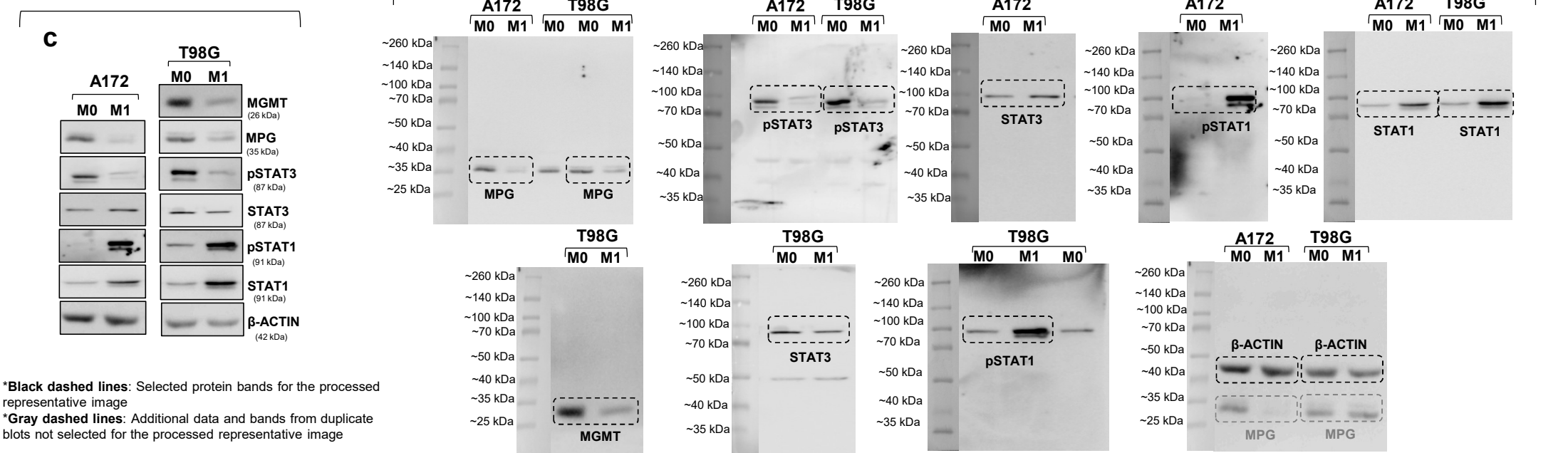


Figure 3



***Black dashed lines:** Selected protein bands for the processed representative image

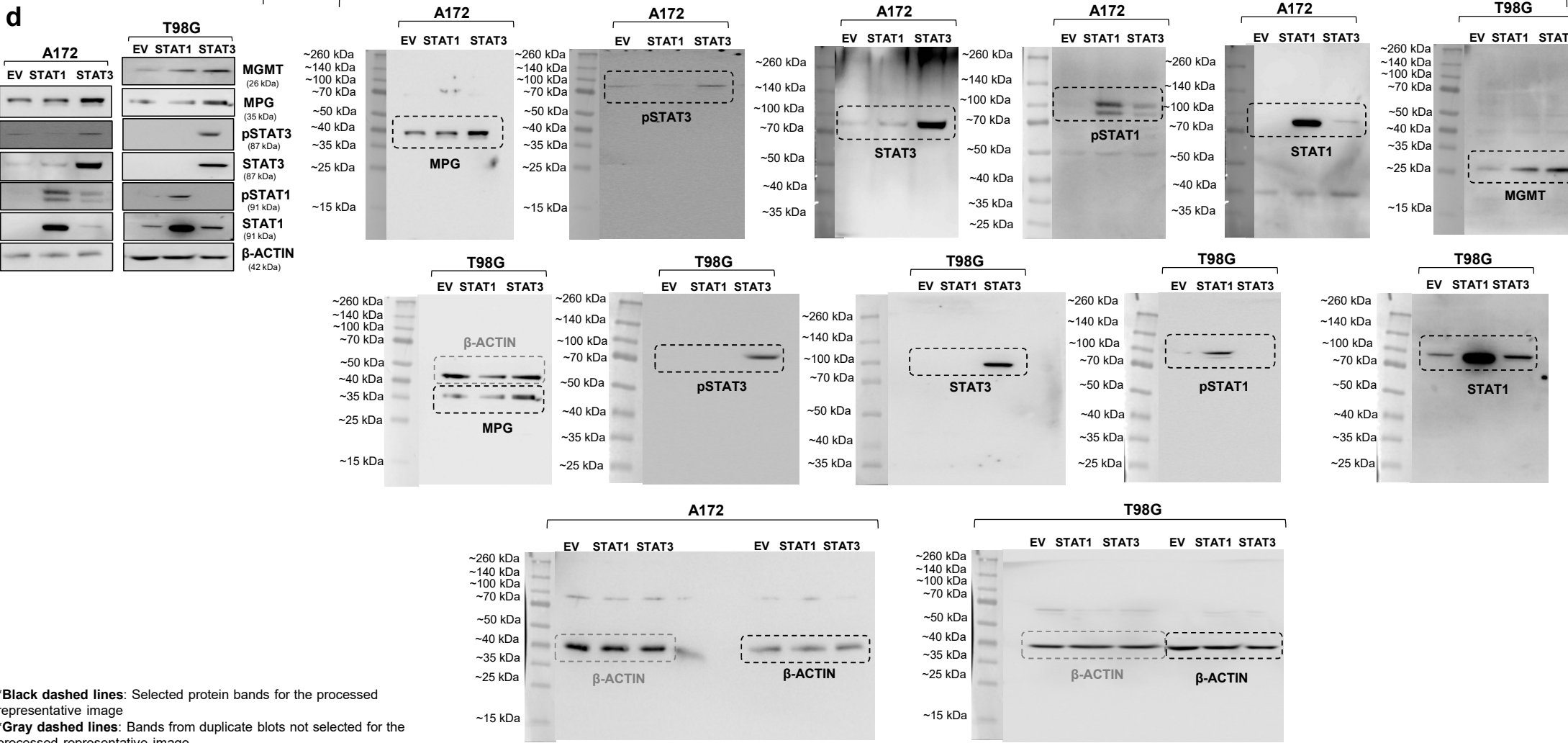
***Gray dashed lines:** Additional data and bands from duplicate blots not selected for the processed representative image

Supplementary material: Figure s5

- **Spectra™ Multicolor Broad Range Protein ladder** (Thermo Scientific #26634) was used as a molecular weight marker for protein size estimation
- **The Luminescent Image Analyzer LAS-mini 4000 system** (Fujifilm, Tokyo, Japan) was used for the visualization of chemiluminescence in Western blot and the digitization of protein ladders

Figure 3

ORIGINAL BLOTS



Supplementary material: Figure s5

- **Spectra™ Multicolor Broad Range Protein ladder** (Thermo Scientific #26634) was used as a molecular weight marker for protein size estimation
- **The Luminescent Image Analyzer LAS-mini 4000 system** (Fujifilm, Tokyo, Japan) was used for the visualization of chemiluminescence in Western blot and the digitization of protein ladders

Figure 3

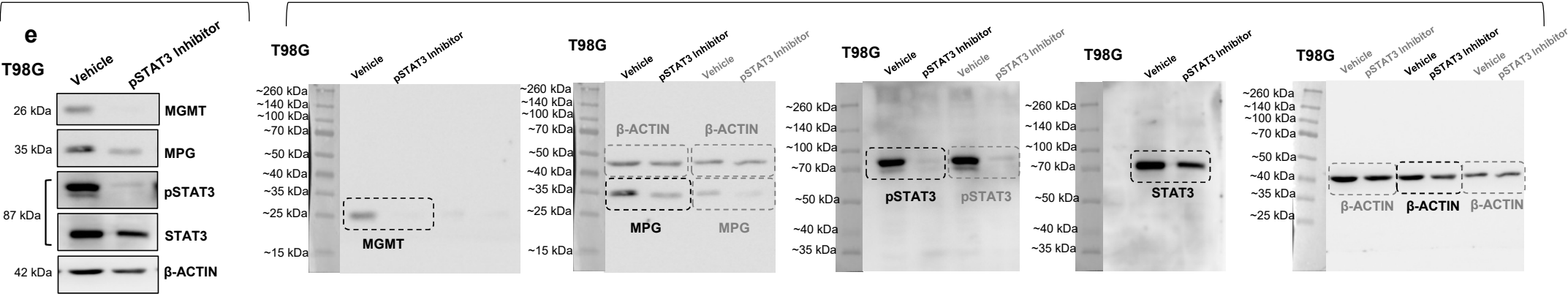
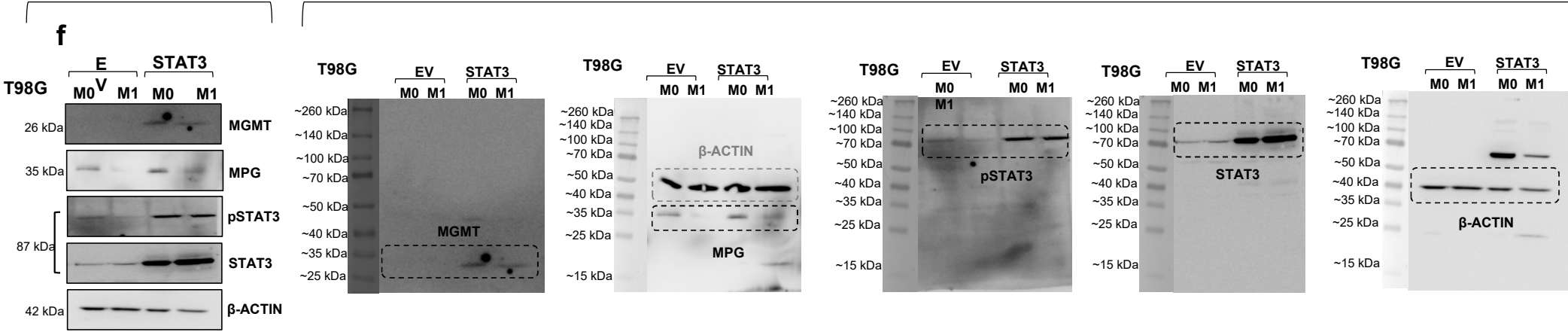


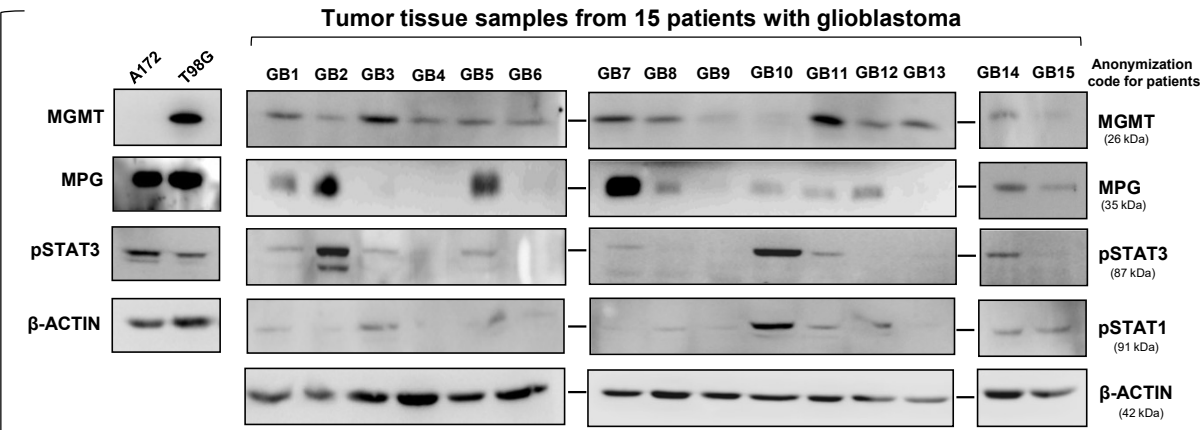
Figure 3



***Black dashed lines:** Selected protein bands for the processed representative image

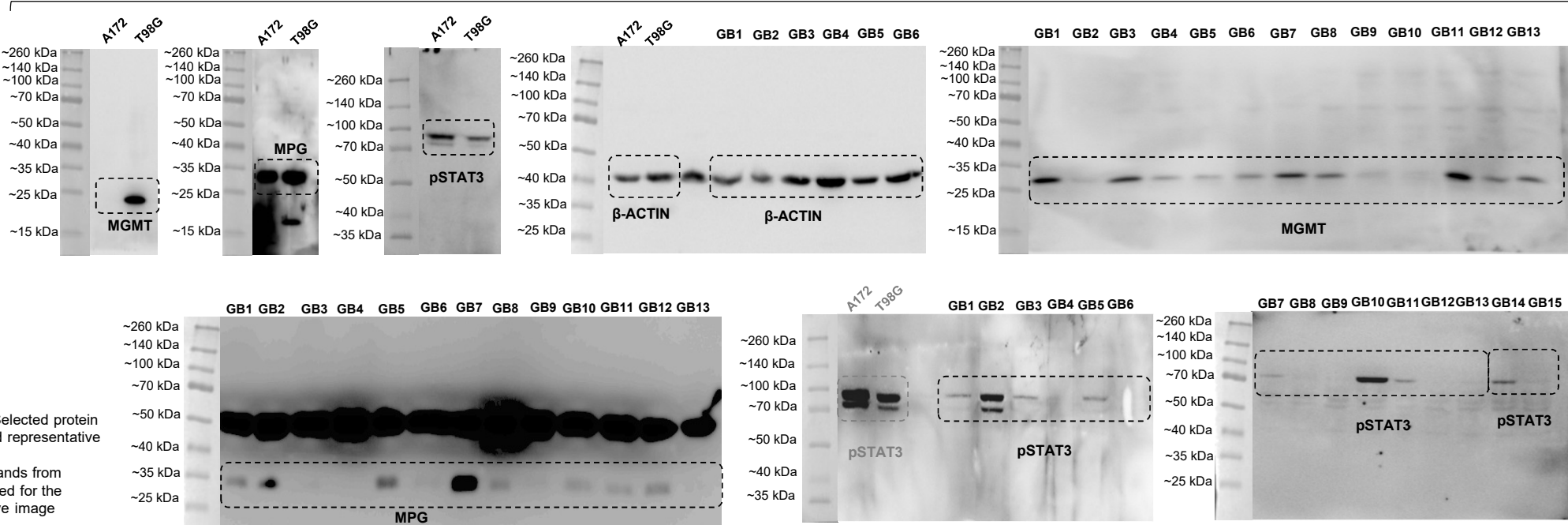
***Gray dashed lines:** Bands from duplicate blots not selected for the processed representative image

Figure 4



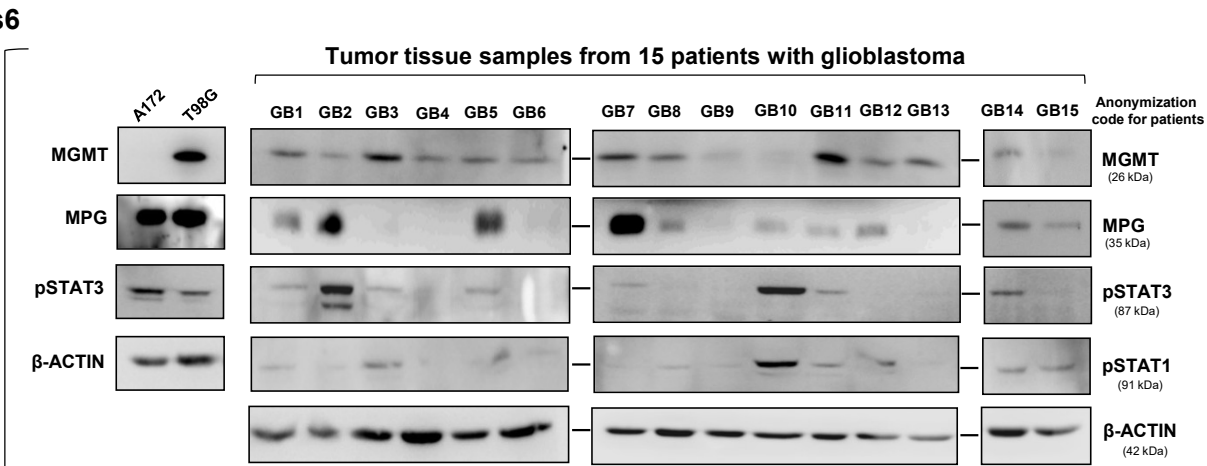
- **Spectra™ Multicolor Broad Range Protein ladder** (Thermo Scientific #26634) was used as a molecular weight marker for protein size estimation
- **The Luminescent Image Analyzer LAS-mini 4000 system** (Fujifilm, Tokyo, Japan) was used for the visualization of chemiluminescence in Western blot and the digitization of protein ladders

ORIGINAL BLOTS-part 1



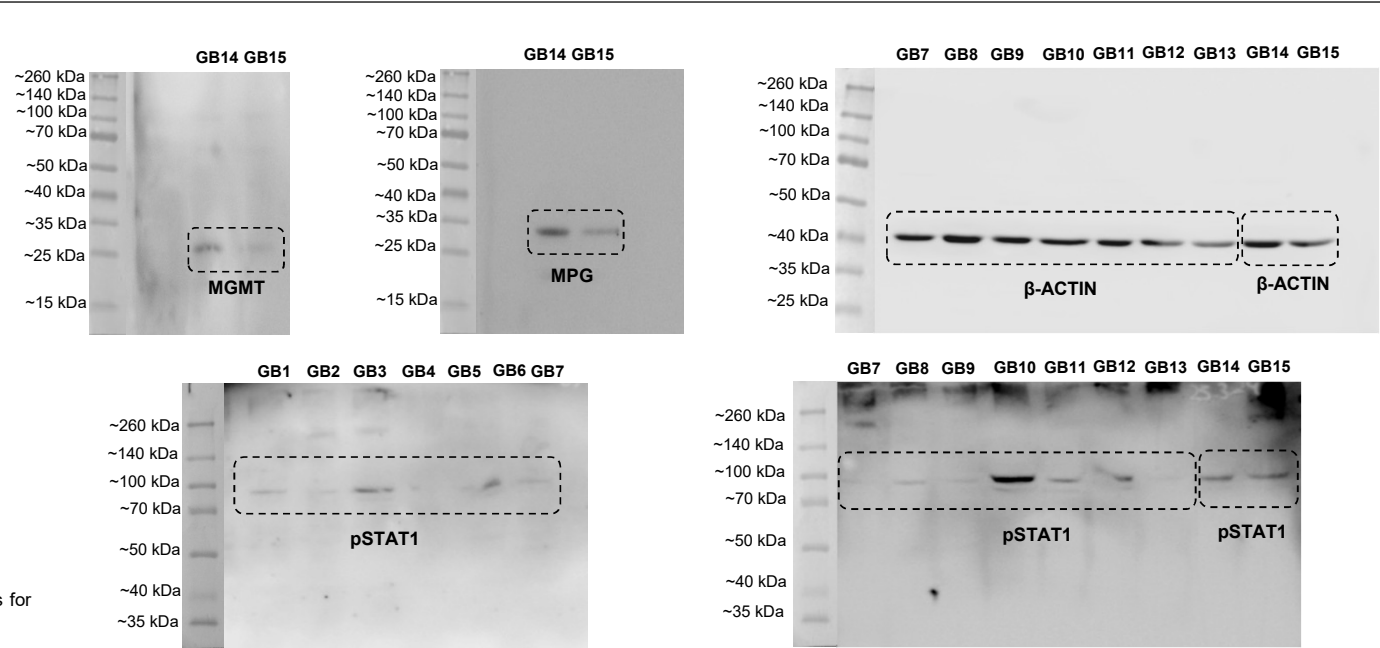
***Black dashed lines:** Selected protein bands for the processed representative image
***Gray dashed lines:** Bands from duplicate blot not selected for the processed representative image

Figure 4



- Spectra™ Multicolor Broad Range Protein ladder (Thermo Scientific #26634) was used as a molecular weight marker for protein size estimation
- The Luminescent Image Analyzer LAS-mini 4000 system (Fujifilm, Tokyo, Japan) was used for the visualization of chemiluminescence in Western blot and the digitization of protein ladders

ORIGINAL BLOTS-part 2



*Black dashed lines: Selected protein bands for the processed representative image

Supplementary material: Figure s7

- **Spectra™ Multicolor Broad Range Protein ladder** (Thermo Scientific #26634) was used as a molecular weight marker for protein size estimation
- **The Luminescent Image Analyzer LAS-mini 4000 system** (Fujifilm, Tokyo, Japan) was used for the visualization of chemiluminescence in Western blot and the digitization of protein ladders

Figure 5

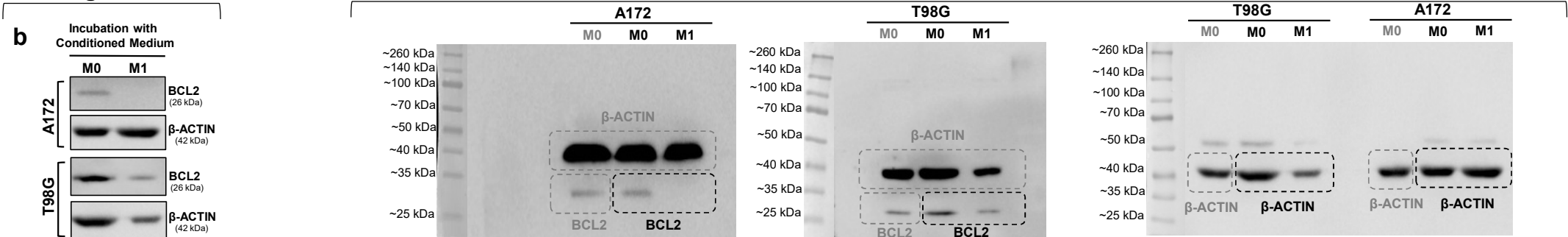


Figure 5

