Fig. 1J

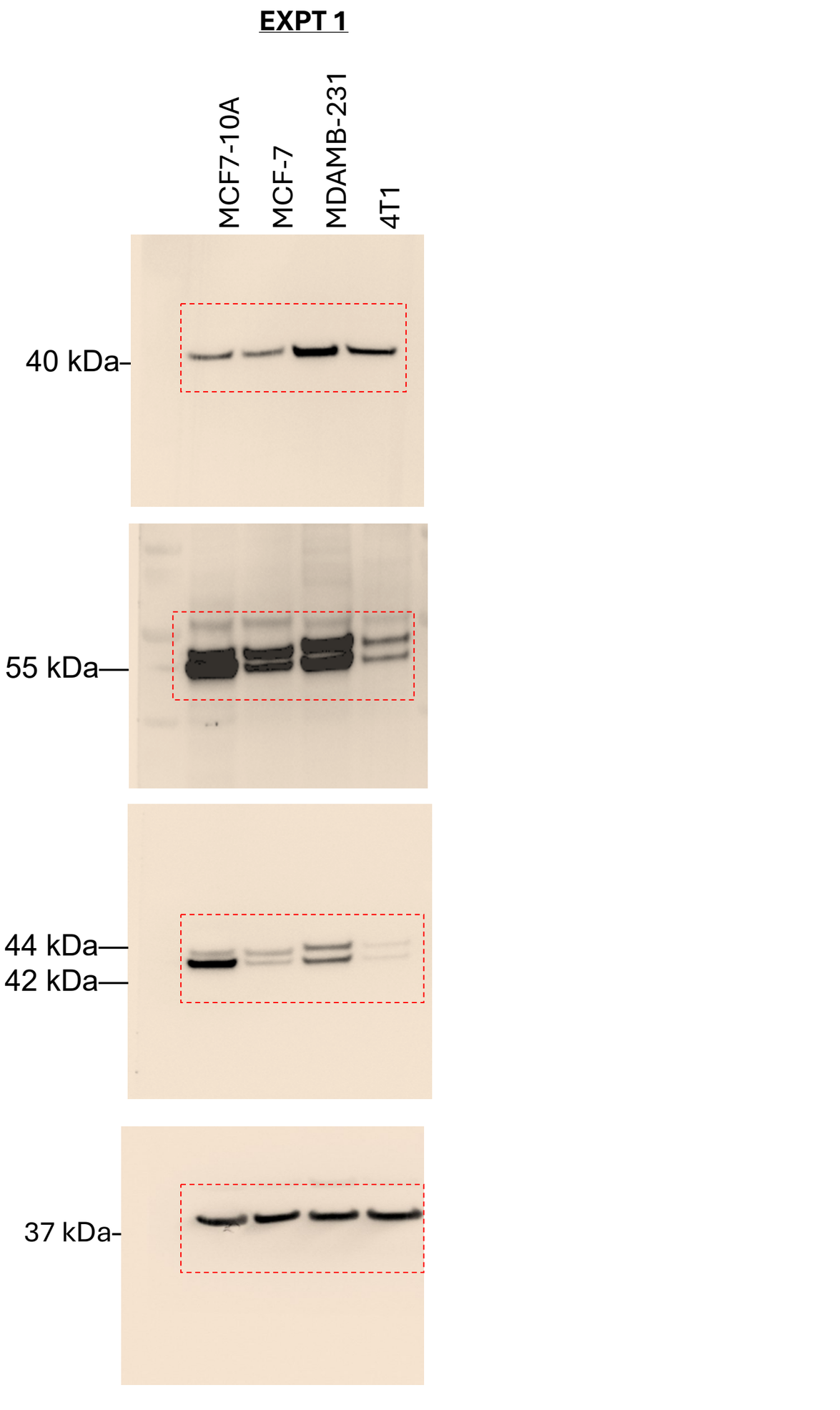

EXPT 1
MCF7-10A
MCF-7
MDAMB-231
4T1
40 kDa–
55 kDa—
44 kDa—
42 kDa—
37 kDa-

Fig. 2G

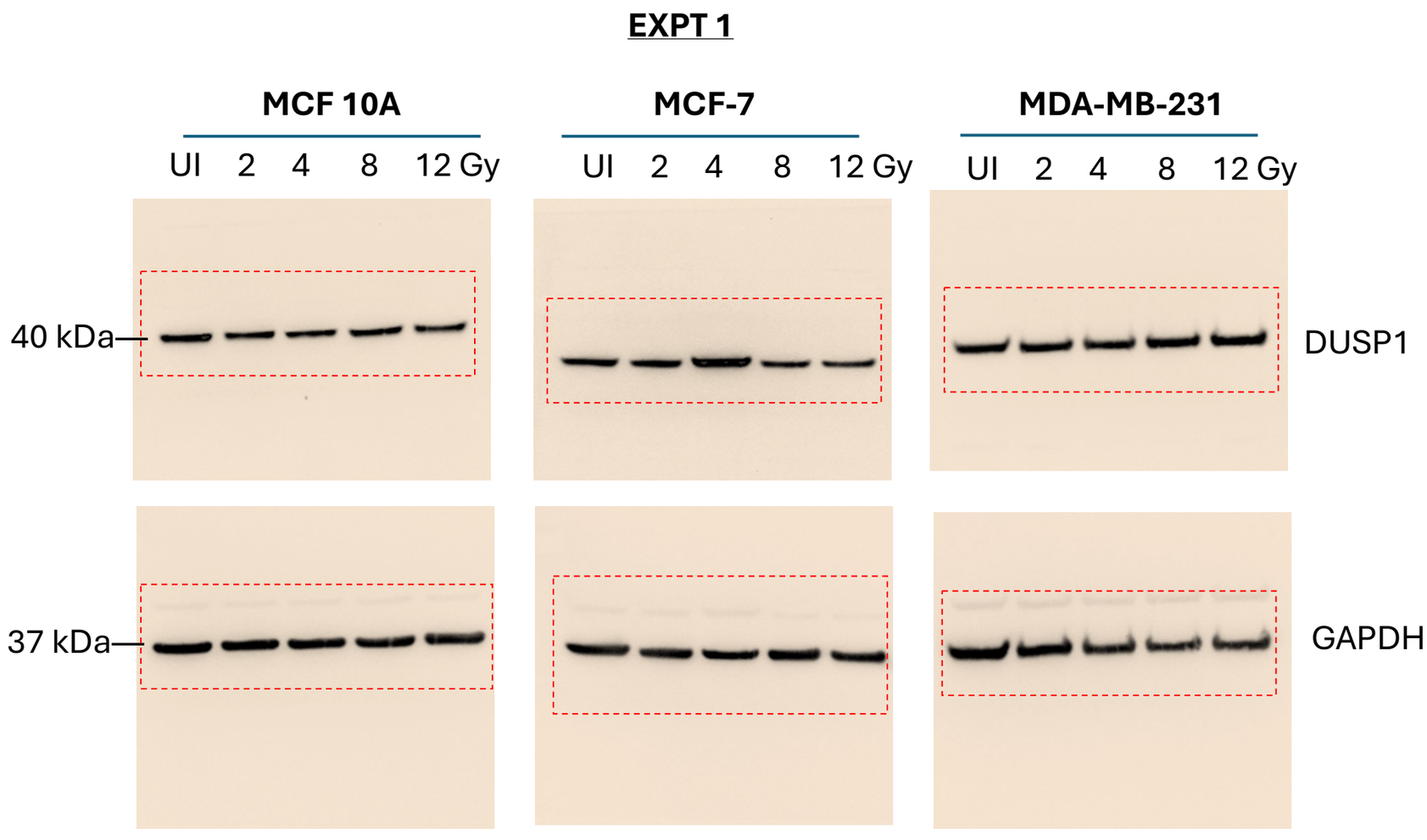

EXPT 1
MCF 10A
MCF-7
MDA-MB-231
UI 2 4 8 12 Gy
UI 2 4 8 12 Gy
UI 2 4 8 12 Gy
40 kDa—
37 kDa—
DUSP1
GAPDH

Fig. 3A

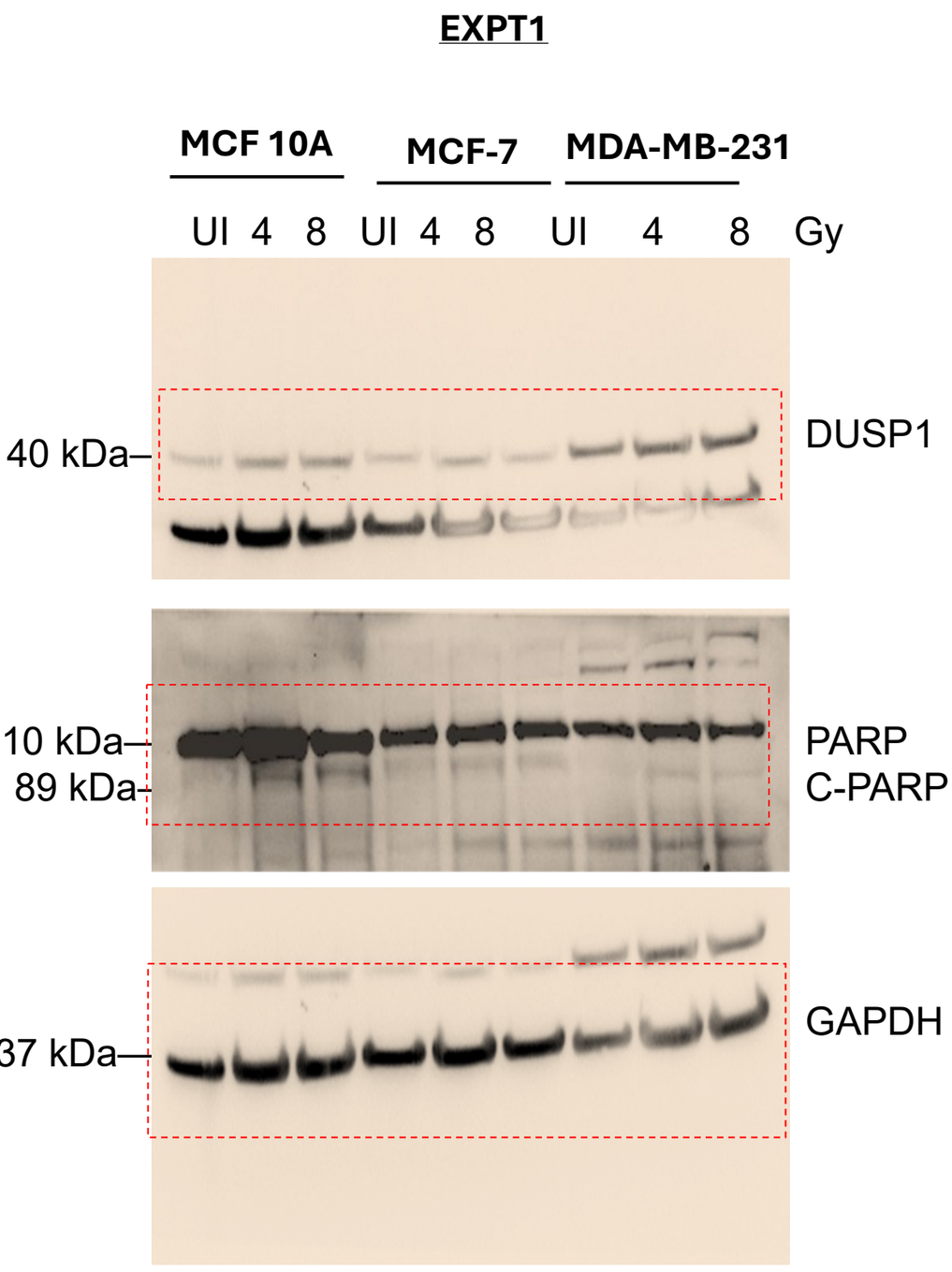

EXPT1
MCF 10A
MCF-7
MDA-MB-231
UI 4 8 UI 4 8 UI 4 8 Gy
40 kDa
DUSP1
10 kDa
89 kDa
PARP
C-PARP
37 kDa
GAPDH

Fig. 3H

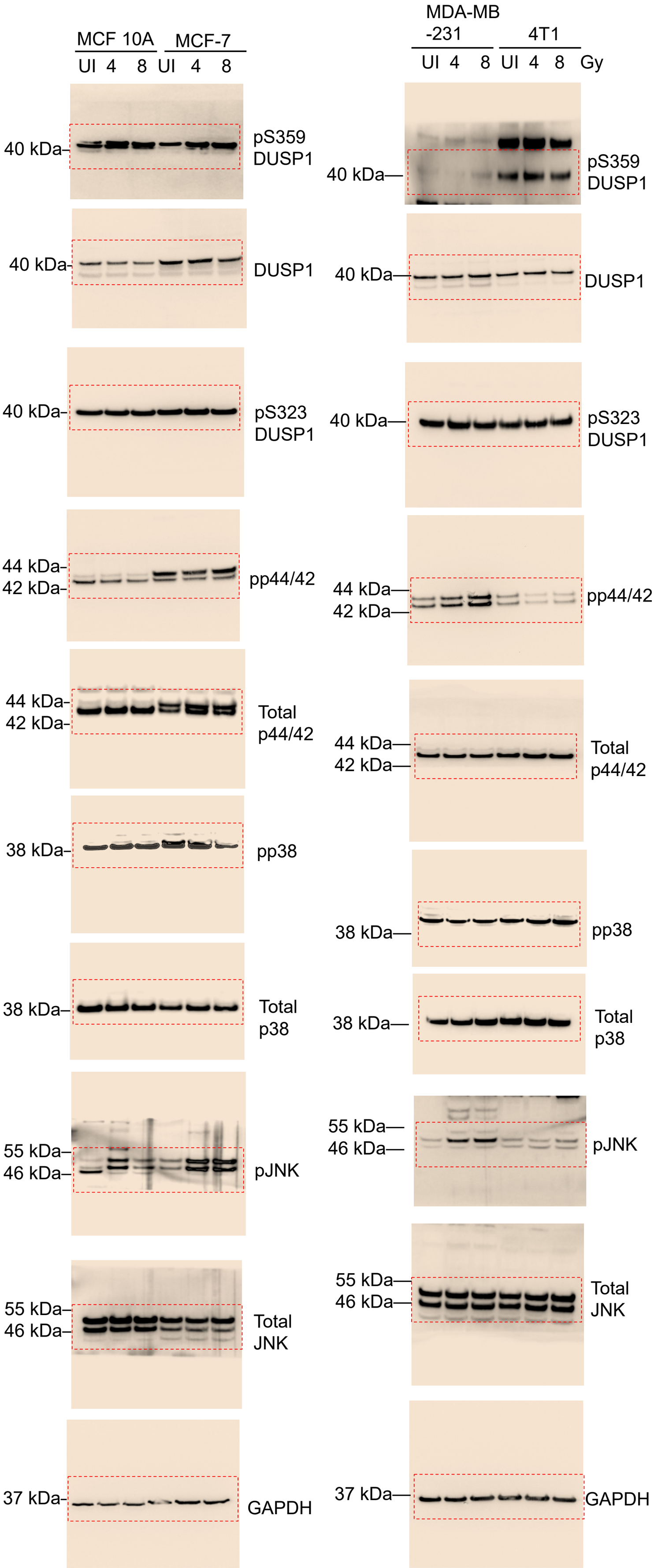

MCF 10A
MCF-7
MDA-MB -231
4T1
UI 4 8 UI 4 8 UI 4 8 UI 4 8 Gy
40 kDa
pS359 DUSP1
DUSP1
pS323 DUSP1
44 kDa
42 kDa
pp44/42
Total p44/42
38 kDa
pp38
Total p38
55 kDa
46 kDa
pJNK
Total JNK
37 kDa
GAPDH

Fig. 3M

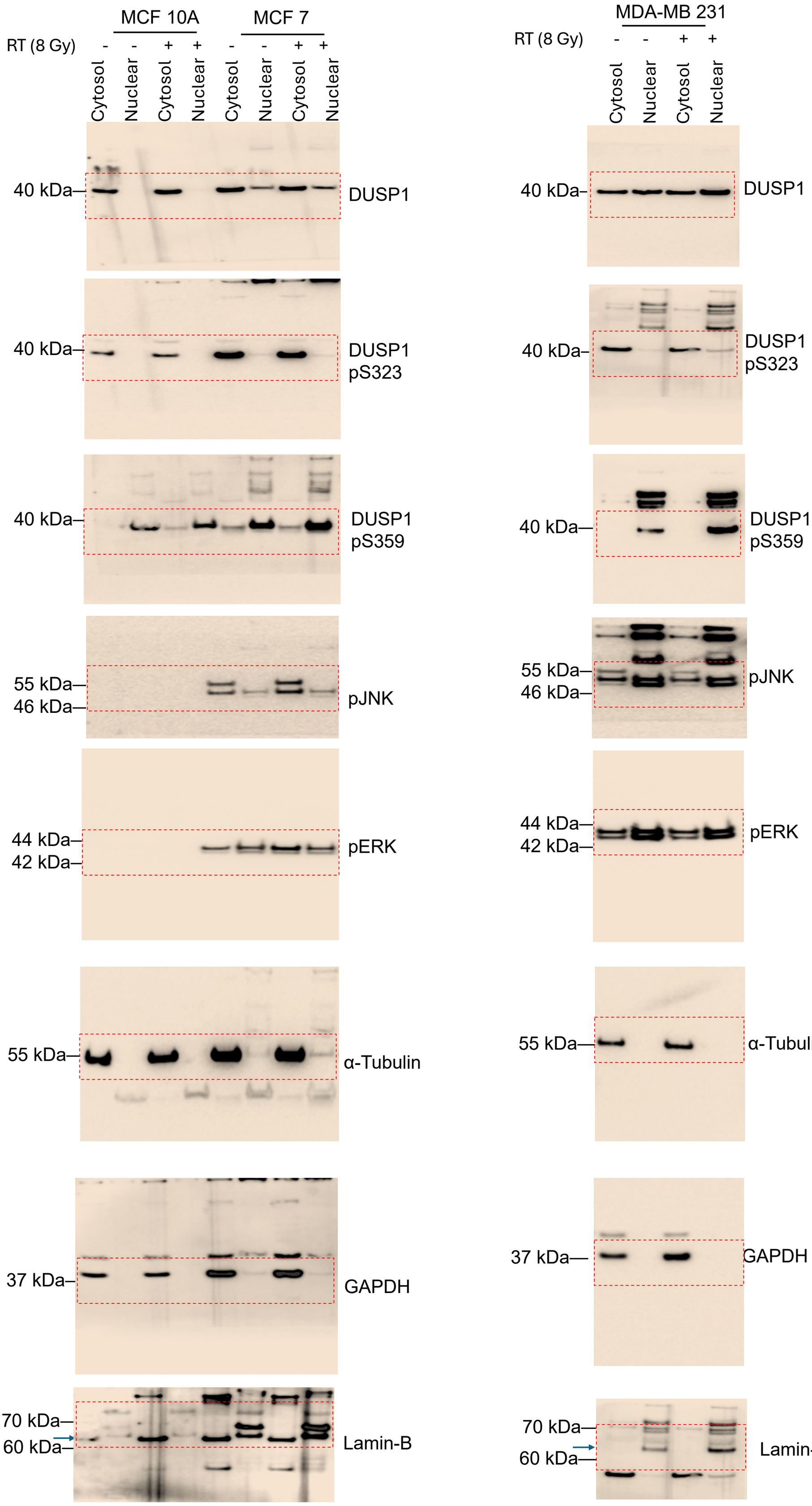

MCF 10A
MCF 7
MDA-MB 231
RT (8 Gy)
- - + + - - + +
- - + +
Cytosol
Nuclear
Cytosol
Nuclear
Cytosol
Nuclear
Cytosol
Nuclear
40 kDa
DUSP1
40 kDa
DUSP1
pS323
40 kDa
DUSP1
pS359
55 kDa
46 kDa
pJNK
44 kDa
42 kDa
pERK
55 kDa
α-Tubulin
37 kDa
GAPDH
70 kDa
60 kDa
Lamin-B

Fig. 4B

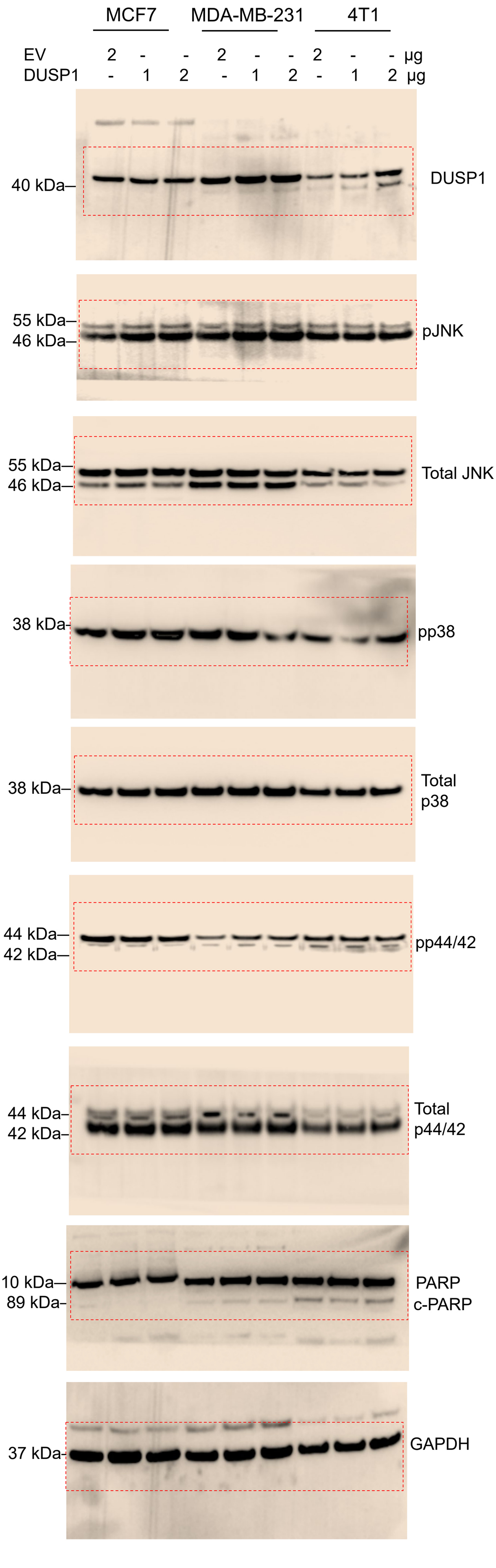

MCF7
MDA-MB-231
4T1
EV 2 - - 2 - - 2 - - µg
DUSP1 - 1 2 - 1 2 - 1 2 µg
40 kDa–
DUSP1
55 kDa–
46 kDa–
pJNK
55 kDa–
46 kDa–
Total JNK
38 kDa–
pp38
38 kDa–
Total p38
44 kDa–
42 kDa–
pp44/42
44 kDa–
42 kDa–
Total p44/42
110 kDa–
89 kDa–
PARP c-PARP
37 kDa–
GAPDH

Fig. 4D

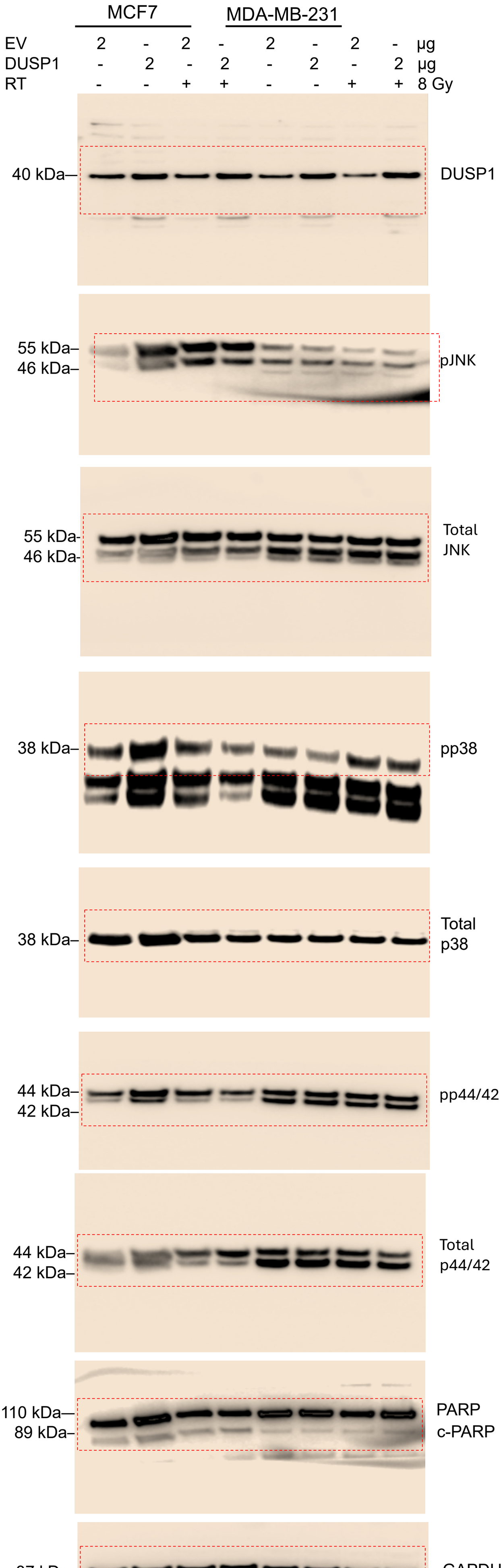

MCF7
MDA-MB-231
EV 2 - 2 - 2 - 2 - µg
DUSP1 - 2 - 2 - 2 - 2 µg
RT - - + + - - + + 8 Gy
40 kDa–
DUSP1
55 kDa–
46 kDa–
pJNK
55 kDa–
46 kDa–
Total JNK
38 kDa–
pp38
38 kDa–
Total p38
44 kDa–
42 kDa–
pp44/42
44 kDa–
42 kDa–
Total p44/42
110 kDa–
89 kDa–
PARP c-PARP
37 kDa–
GAPDH

Fig. 4F

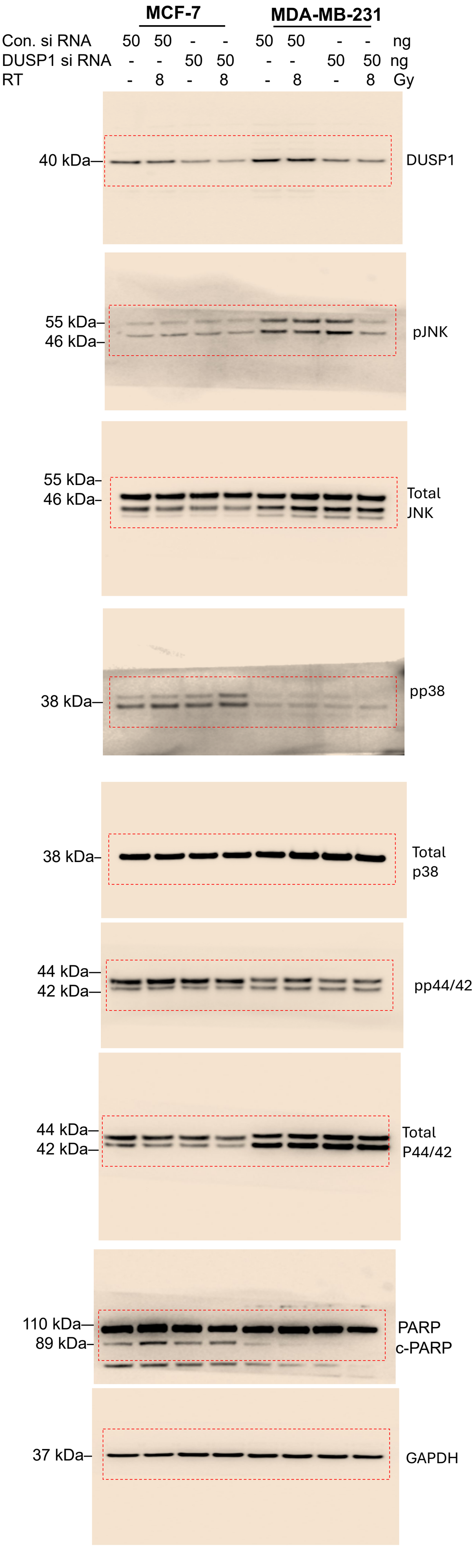

MCF-7
MDA-MB-231
Con. si RNA 50 50 - - 50 50 - - ng
DUSP1 si RNA - - 50 50 - - 50 50 ng
RT - 8 - 8 - 8 - 8 Gy
40 kDa
DUSP1
55 kDa
46 kDa
pJNK
55 kDa
46 kDa
Total JNK
38 kDa
pp38
38 kDa
Total p38
44 kDa
42 kDa
pp44/42
44 kDa
42 kDa
Total P44/42
110 kDa
89 kDa
PARP
c-PARP
37 kDa
GAPDH

Fig. 4l

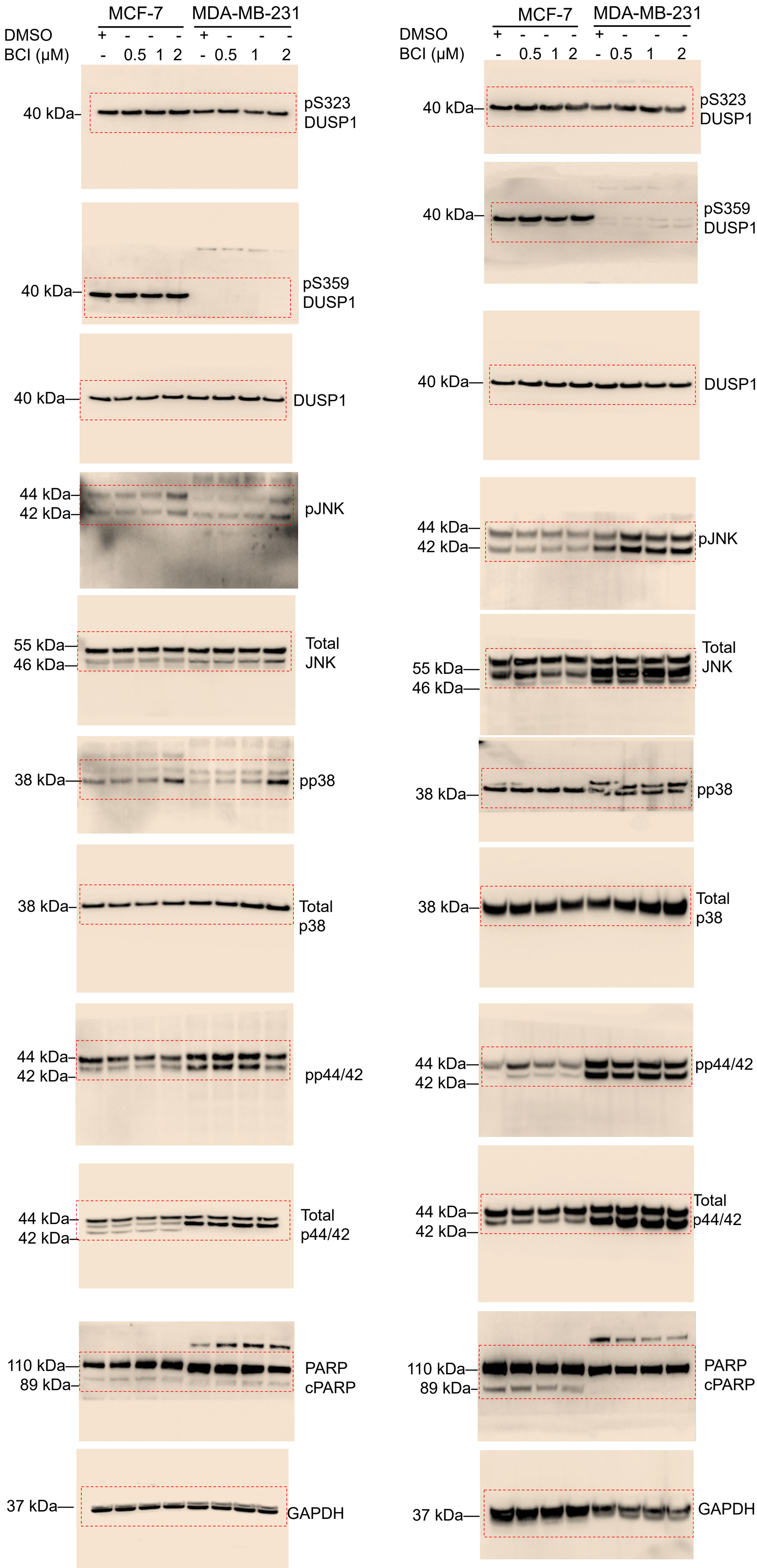

RT 8Gy
MCF-7
MDA-MB-231
DMSO
+ - - - + - - -
BCI (μM)
- 0.5 1 2 - 0.5 1 2
40 kDa
pS323 DUSP1
pS359 DUSP1
DUSP1
44 kDa
42 kDa
pJNK
55 kDa
46 kDa
Total JNK
38 kDa
pp38
Total p38
pp44/42
Total p44/42
110 kDa
89 kDa
PARP cPARP
37 kDa
GAPDH

Fig. 4J

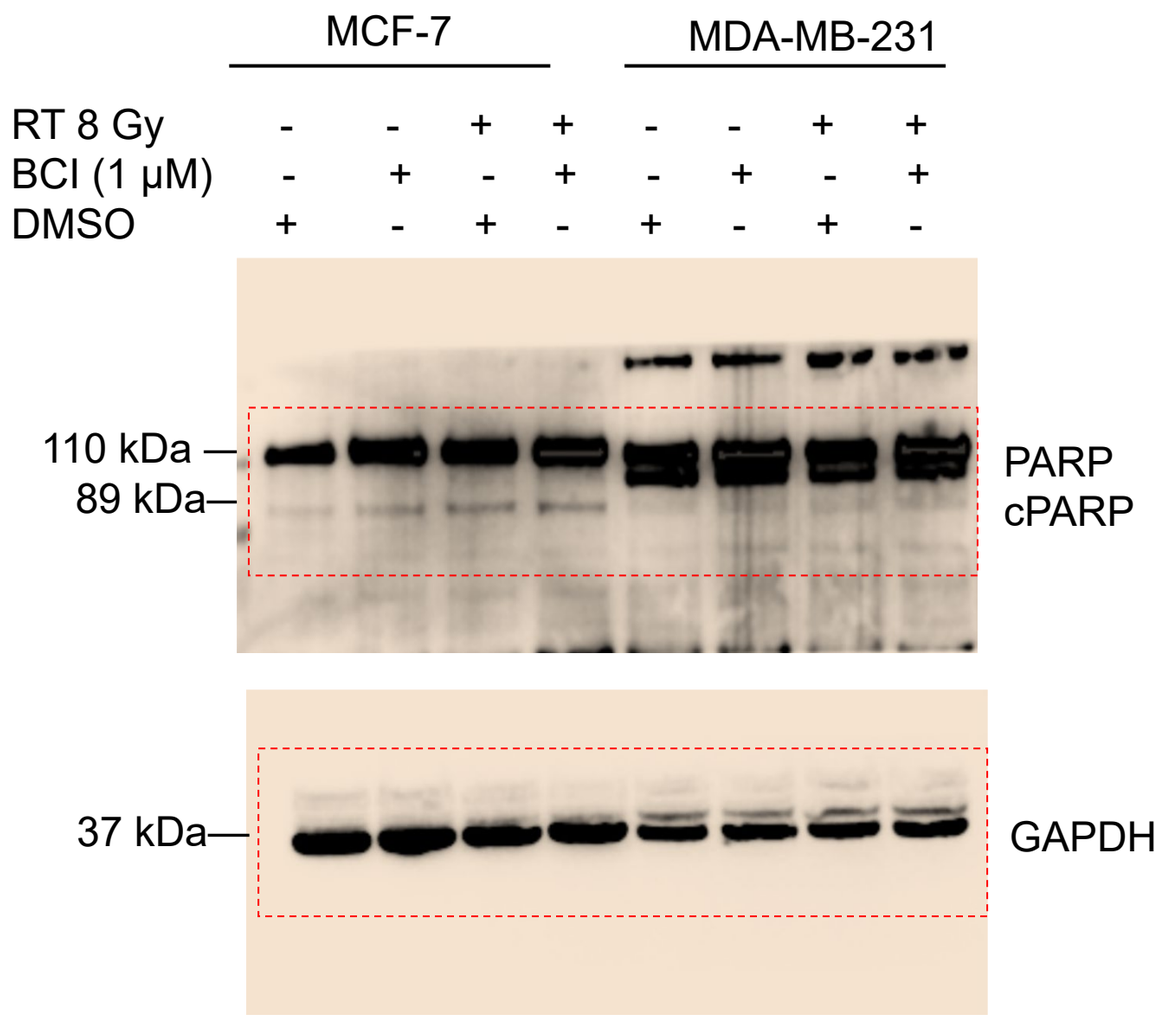

MCF-7
MDA-MB-231
RT 8 Gy - - + + - - + +
BCI (1 μM) - + - + - + - +
DMSO + - + - + - + -
110 kDa
89 kDa
PARP
cPARP
37 kDa
GAPDH

Fig. 5C

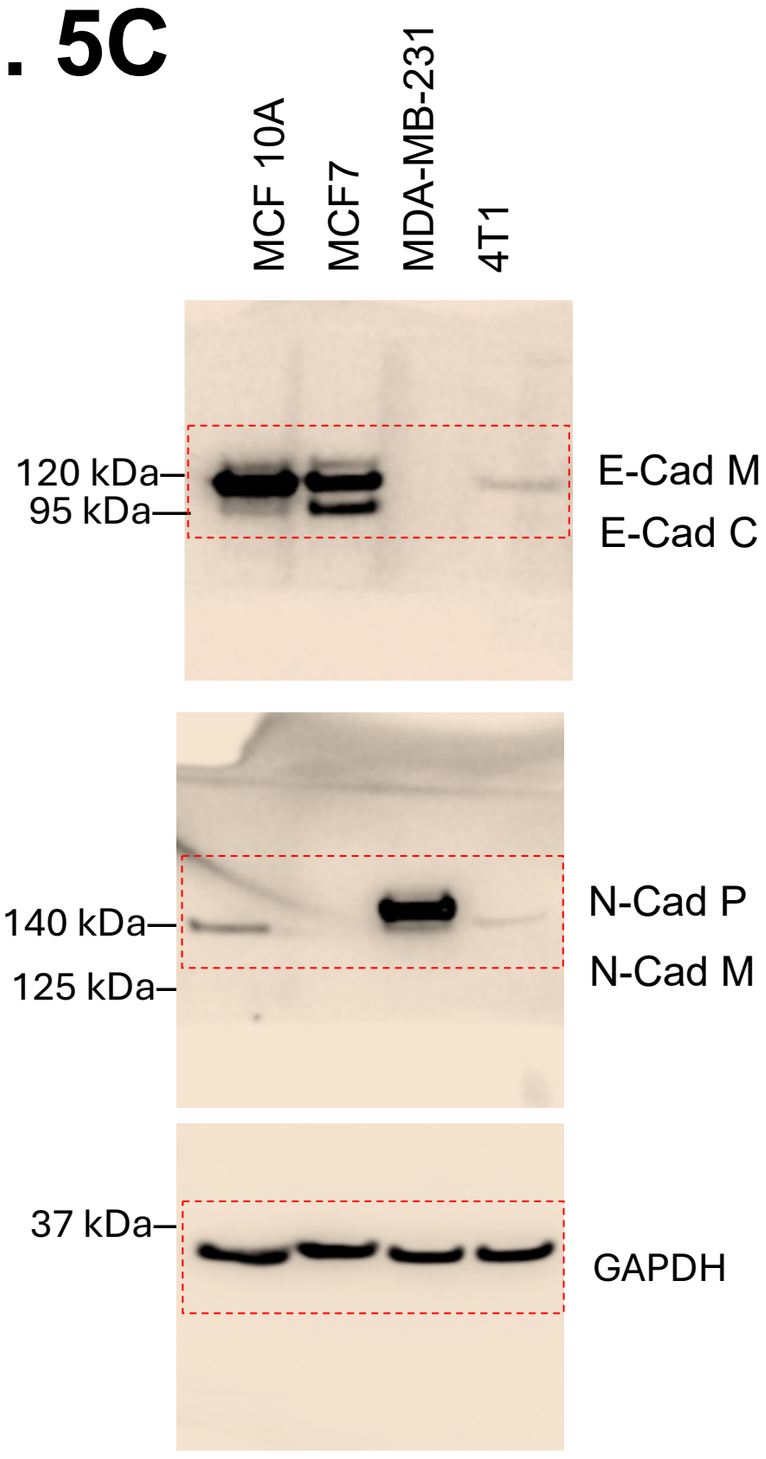


Fig. 5D

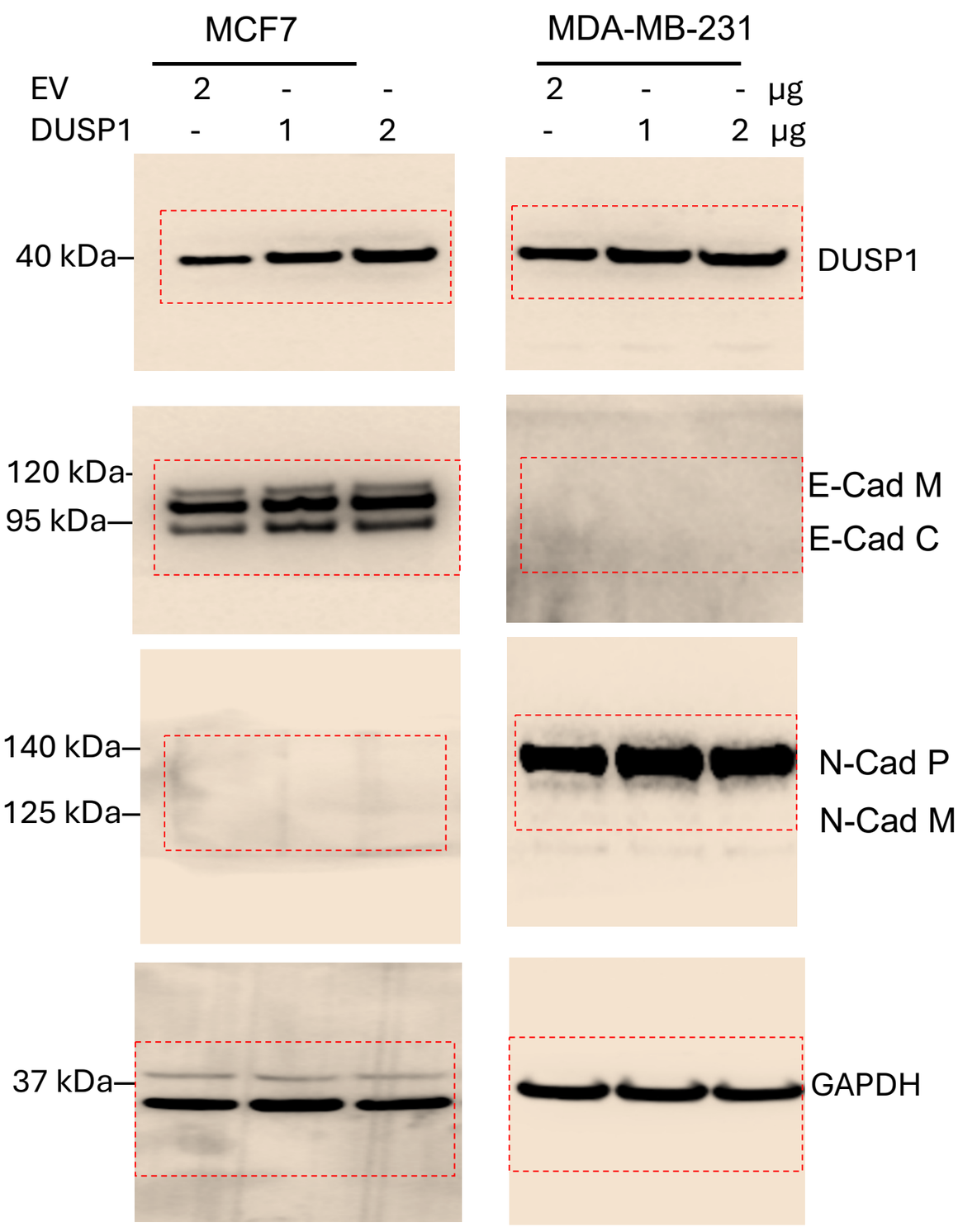


Fig. 5E

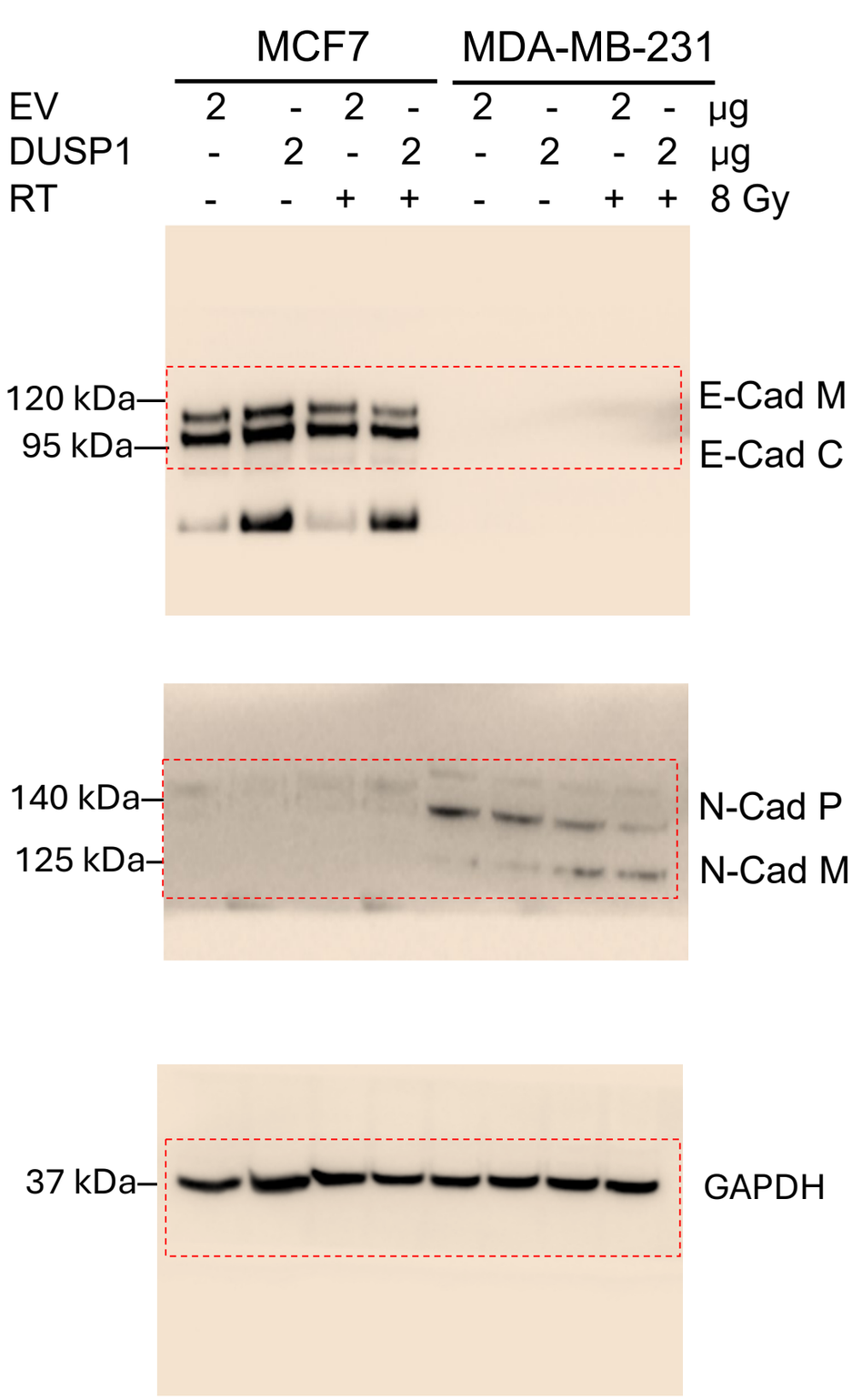


Fig. 5F

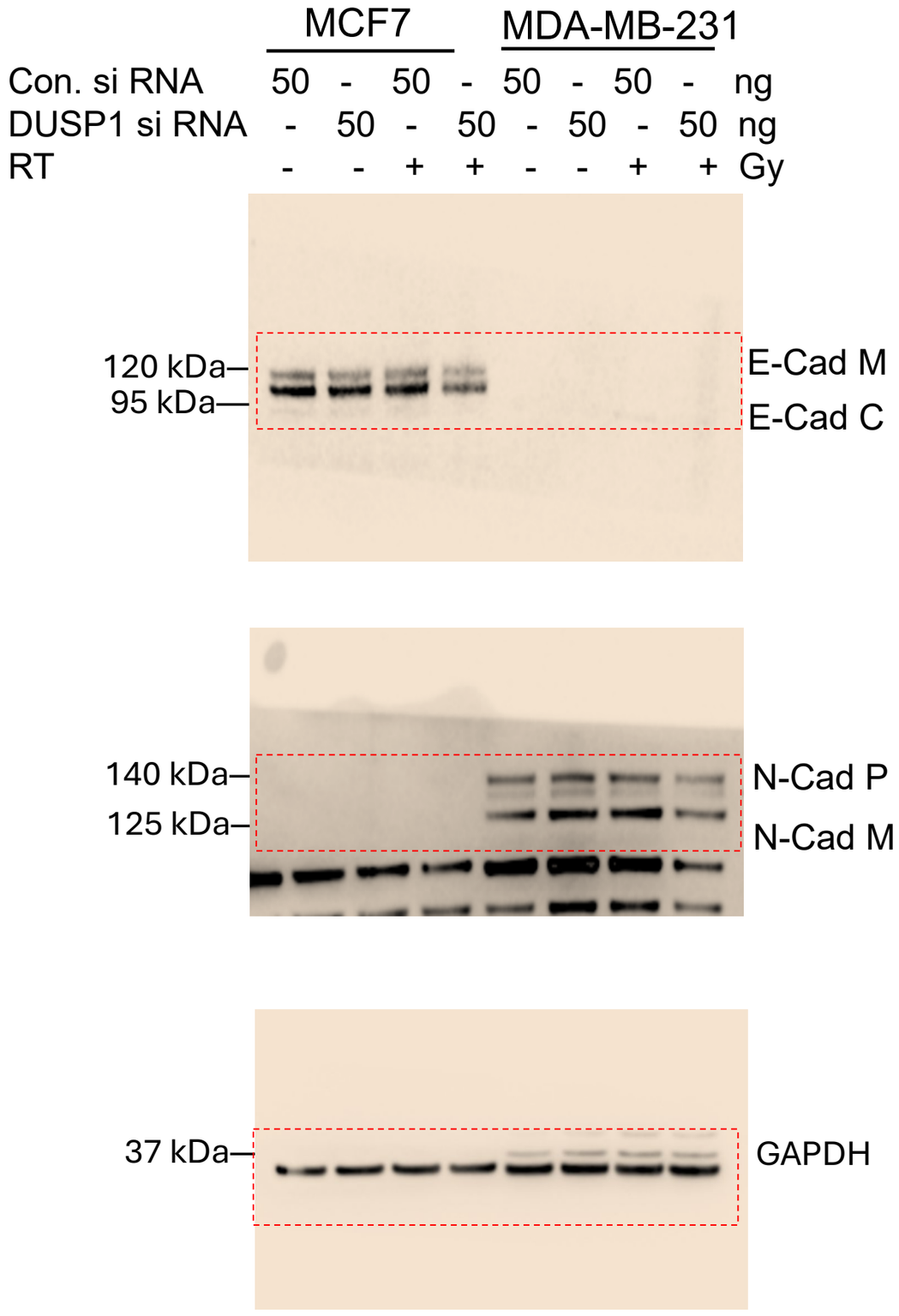


Fig. 5G

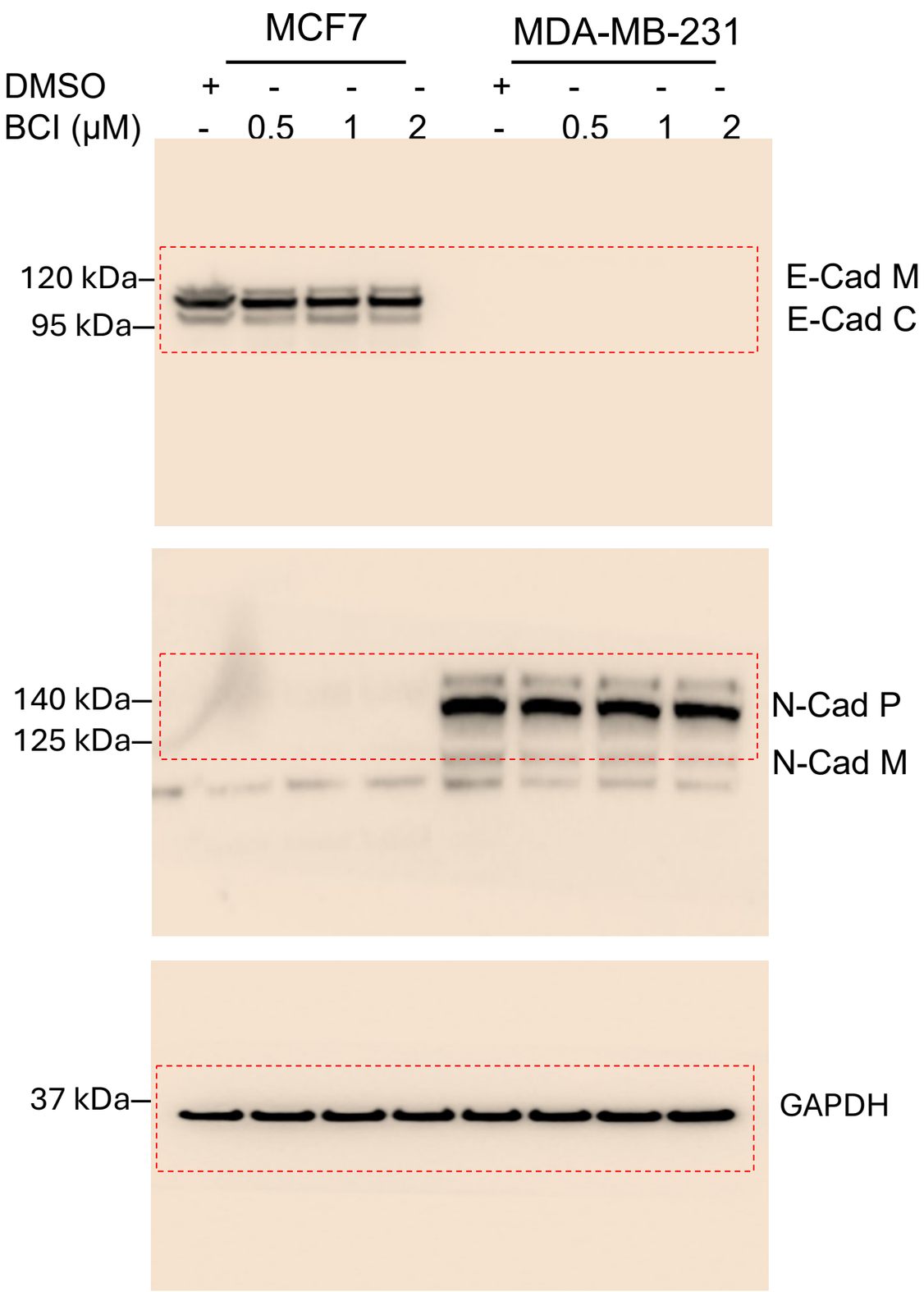

MCF7
MDA-MB-231
DMSO + - - - + - - -
BCI (μM) - 0.5 1 2 - 0.5 1 2
120 kDa–
95 kDa–
E-Cad M
E-Cad C
140 kDa–
125 kDa–
N-Cad P
N-Cad M
37 kDa–
GAPDH

Fig. 5H

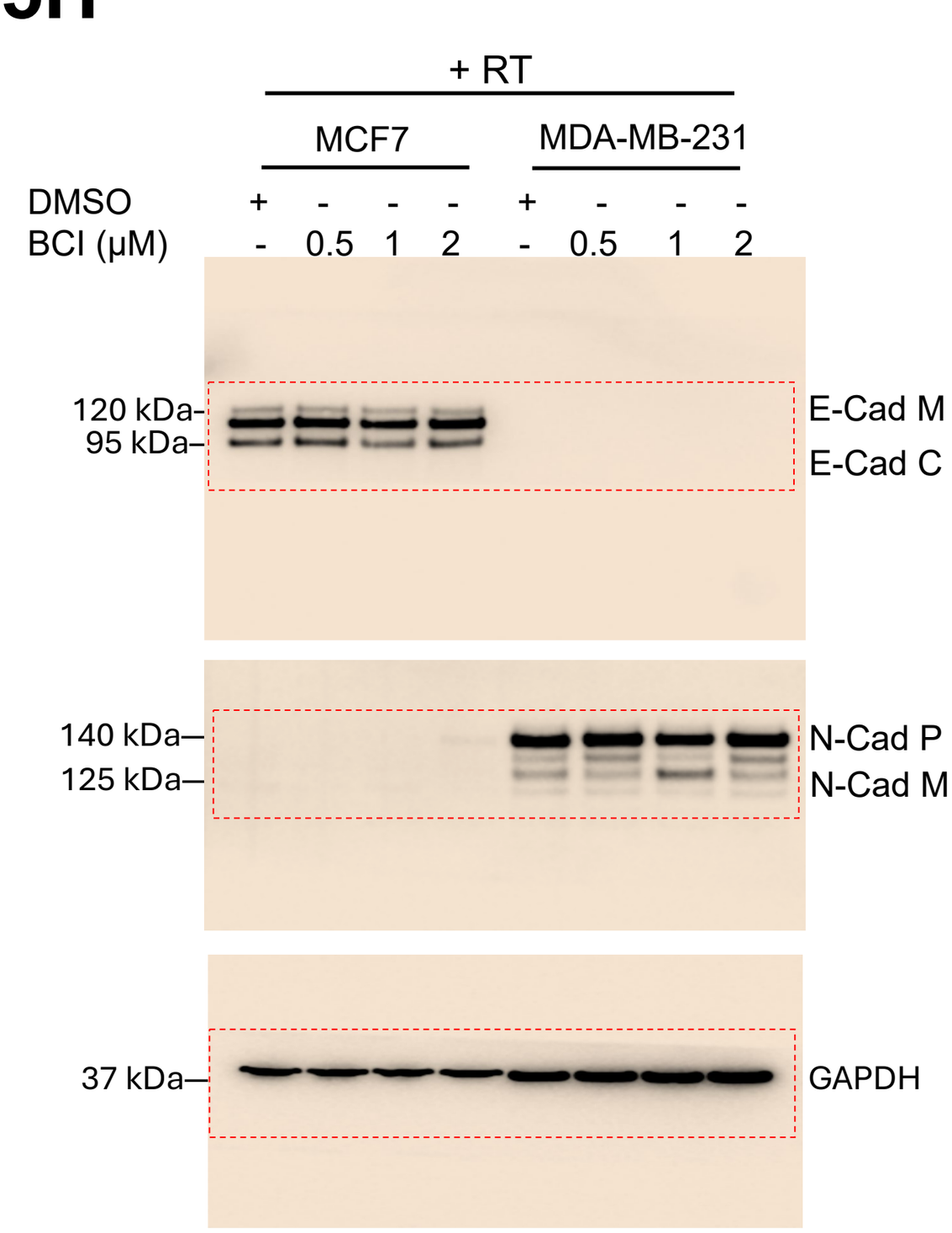

+ RT
MCF7
MDA-MB-231
DMSO + - - - + - - -
BCI (μM) - 0.5 1 2 - 0.5 1 2
120 kDa–
95 kDa–
E-Cad M
E-Cad C
140 kDa–
125 kDa–
N-Cad P
N-Cad M
37 kDa–
GAPDH

Fig. 5L

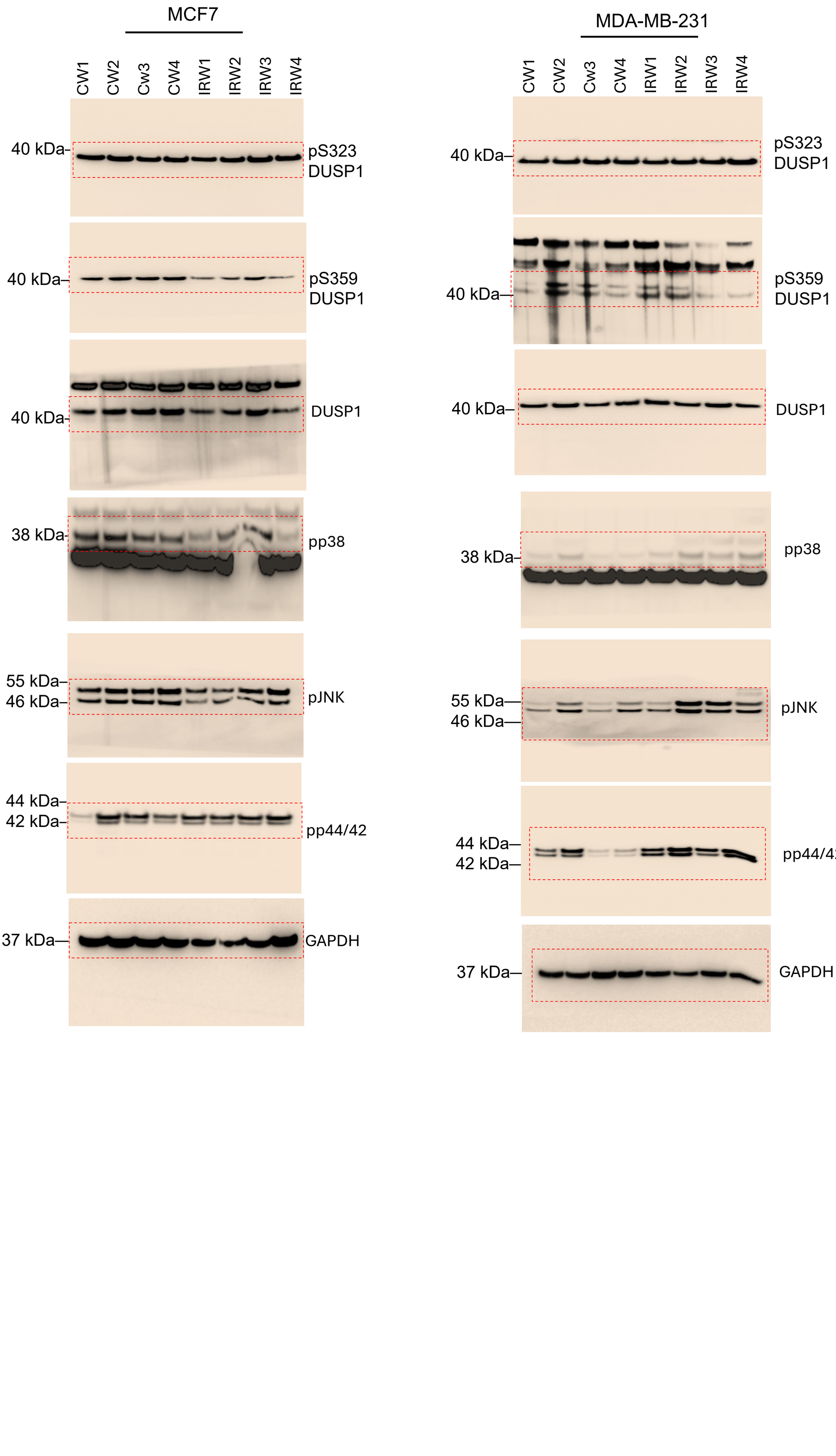

MCF7
CW1
CW2
Cw3
CW4
IRW1
IRW2
IRW3
IRW4
40 kDa–
pS323
DUSP1
40 kDa–
pS359
DUSP1
40 kDa–
DUSP1
38 kDa–
pp38
55 kDa–
46 kDa–
pJNK
44 kDa–
42 kDa–
pp44/42
37 kDa–
GAPDH
MDA-MB-231
CW1
CW2
Cw3
CW4
IRW1
IRW2
IRW3
IRW4
40 kDa–
pS323
DUSP1
40 kDa–
pS359
DUSP1
40 kDa–
DUSP1
38 kDa–
pp38
55 kDa–
46 kDa–
pJNK
44 kDa–
42 kDa–
pp44/42
37 kDa–
GAPDH

Fig. 5M

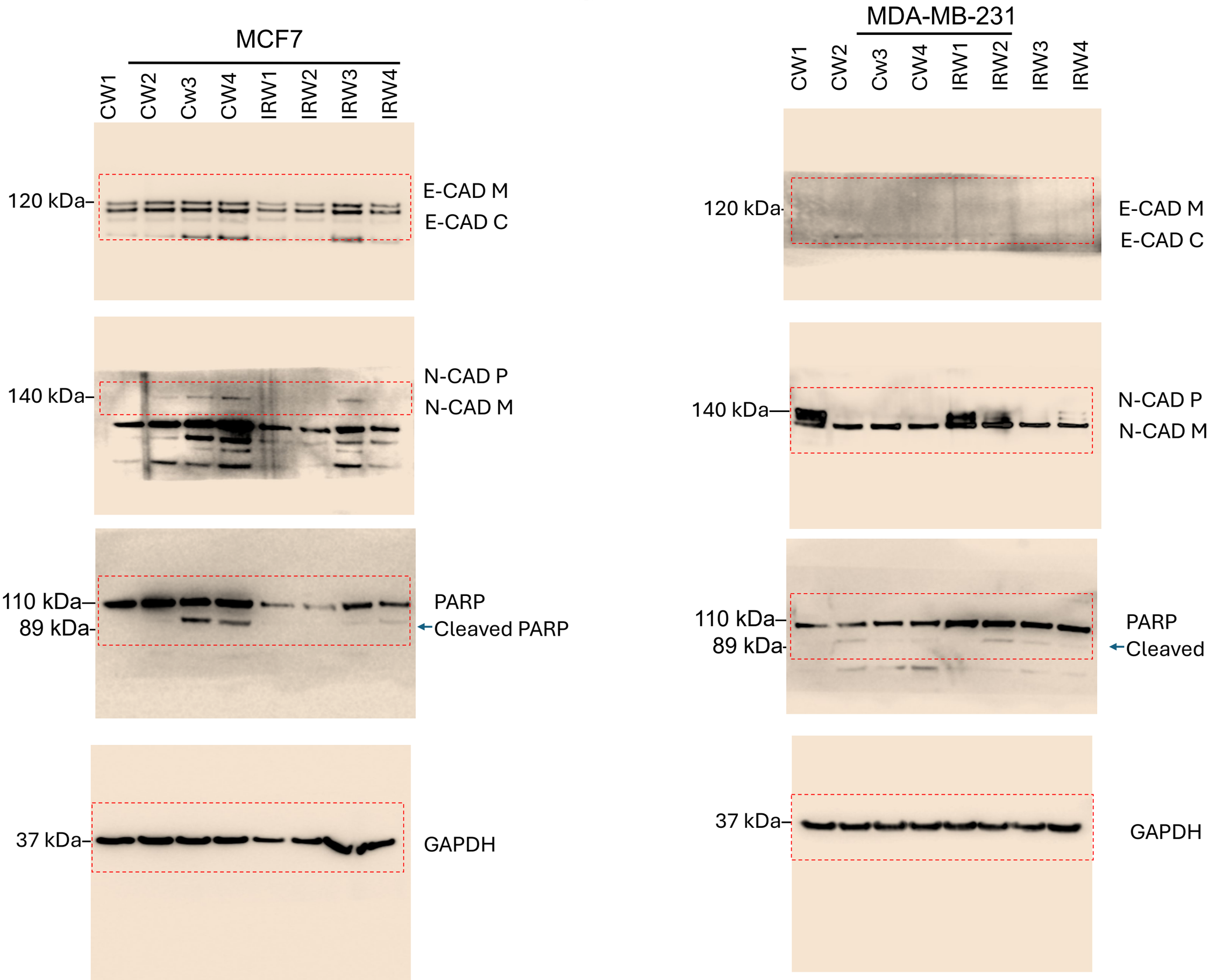

MCF7
CW1
CW2
Cw3
CW4
IRW1
IRW2
IRW3
IRW4
120 kDa
E-CAD M
E-CAD C
140 kDa
N-CAD P
N-CAD M
110 kDa
89 kDa
PARP
Cleaved PARP
37 kDa
GAPDH
MDA-MB-231
CW1
CW2
Cw3
CW4
IRW1
IRW2
IRW3
IRW4
120 kDa
E-CAD M
E-CAD C
140 kDa
N-CAD P
N-CAD M
110 kDa
89 kDa
PARP
Cleaved PARP
37 kDa
GAPDH

Fig. 5N

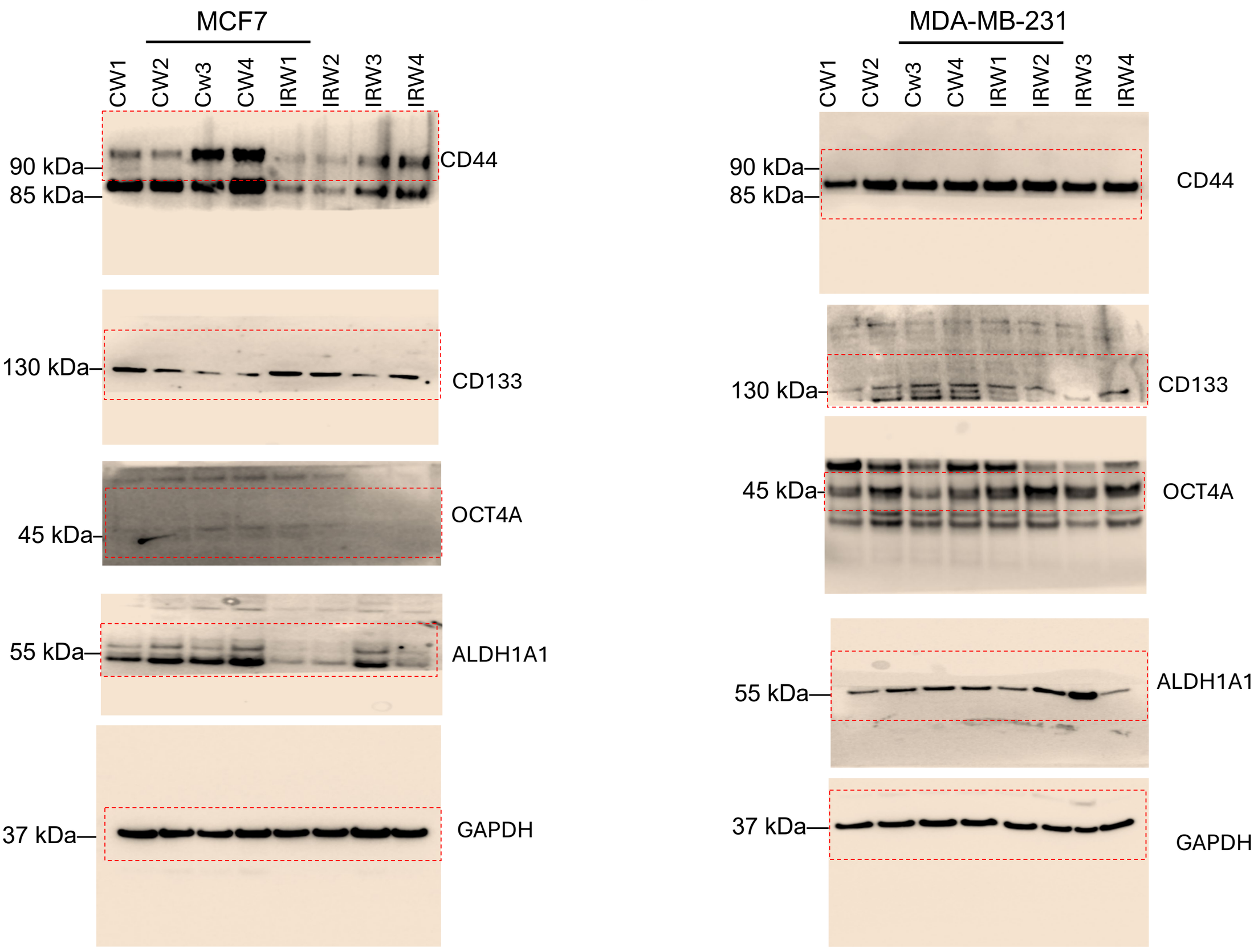

MCF7
CW1
CW2
Cw3
CW4
IRW1
IRW2
IRW3
IRW4
90 kDa
85 kDa
CD44
130 kDa
CD133
45 kDa
OCT4A
55 kDa
ALDH1A1
37 kDa
GAPDH
MDA-MB-231
CW1
CW2
Cw3
CW4
IRW1
IRW2
IRW3
IRW4
90 kDa
85 kDa
CD44
130 kDa
CD133
45 kDa
OCT4A
55 kDa
ALDH1A1
37 kDa
GAPDH

Fig. 6E left panel

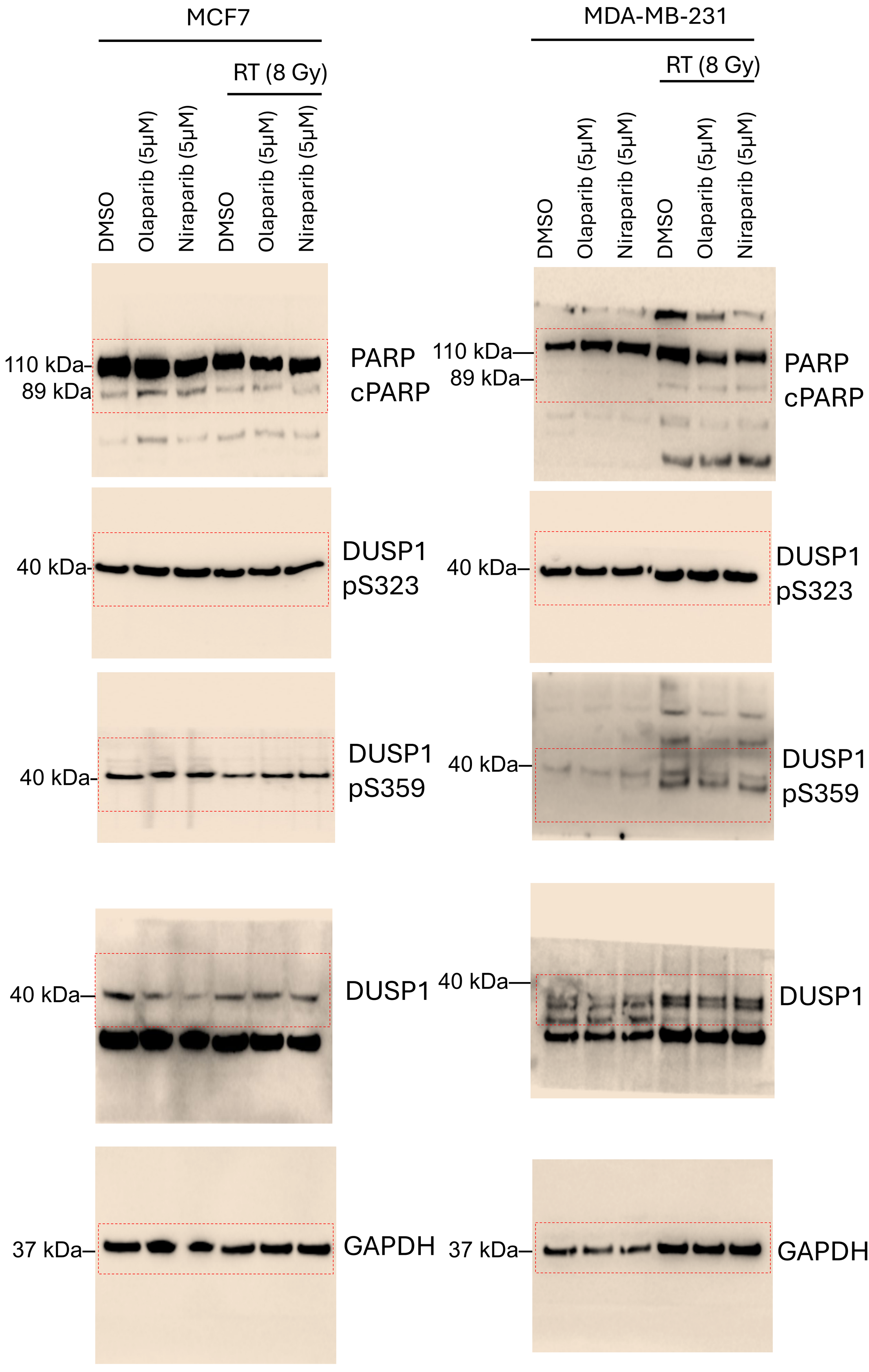


Fig. 6E Right panel

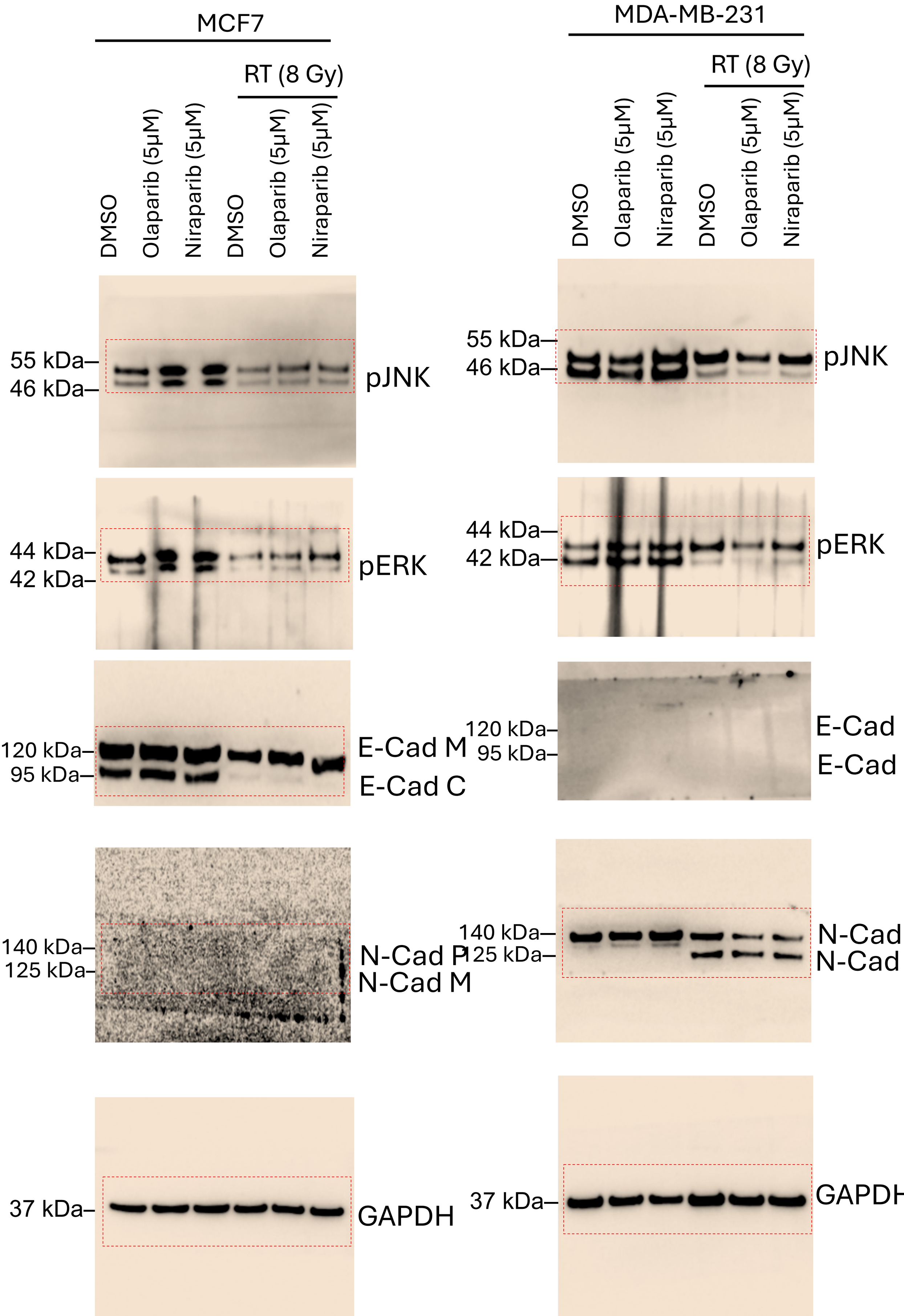


Fig. S6B

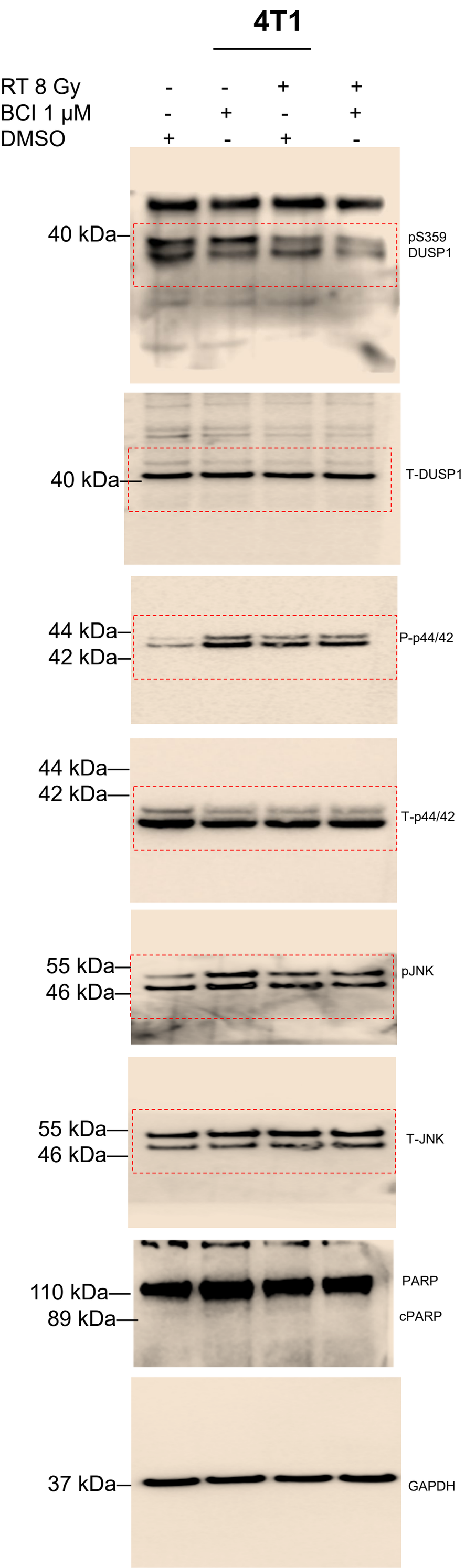


Fig. S6C

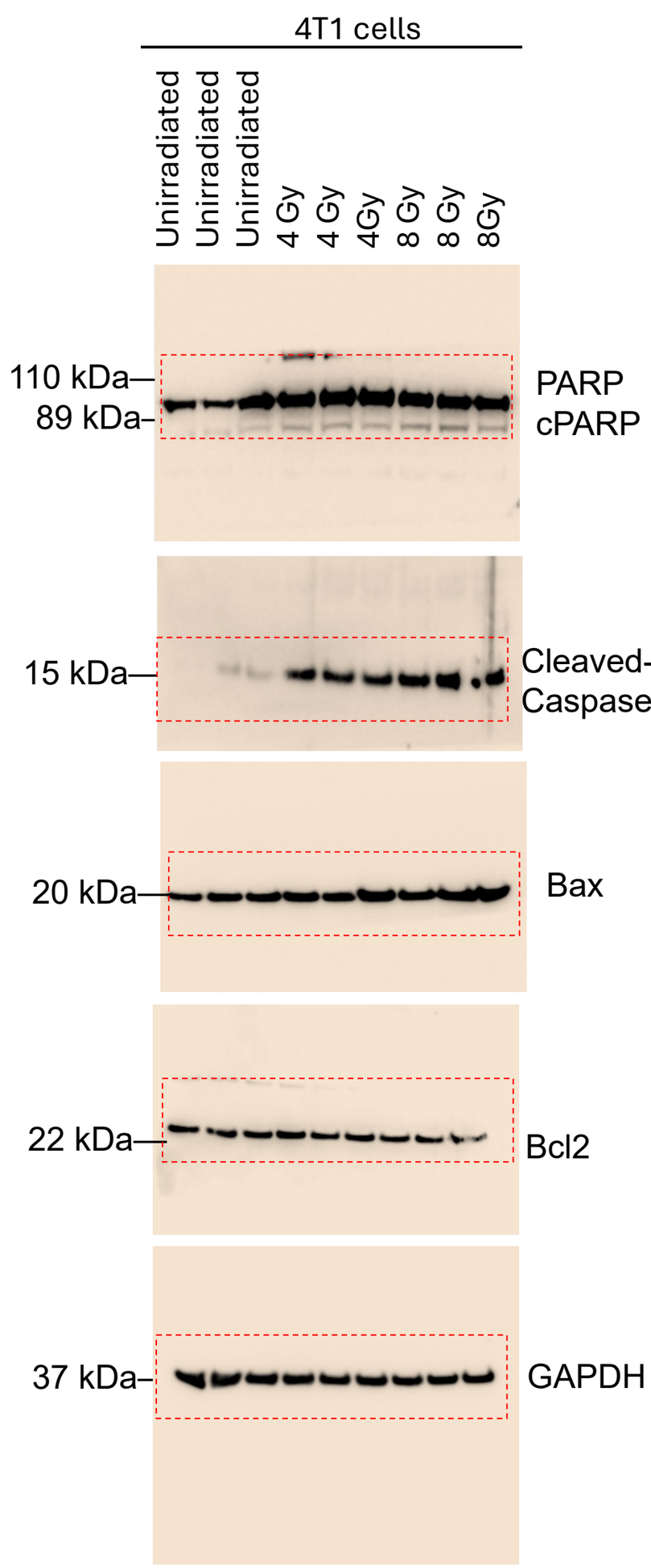


Fig. S9

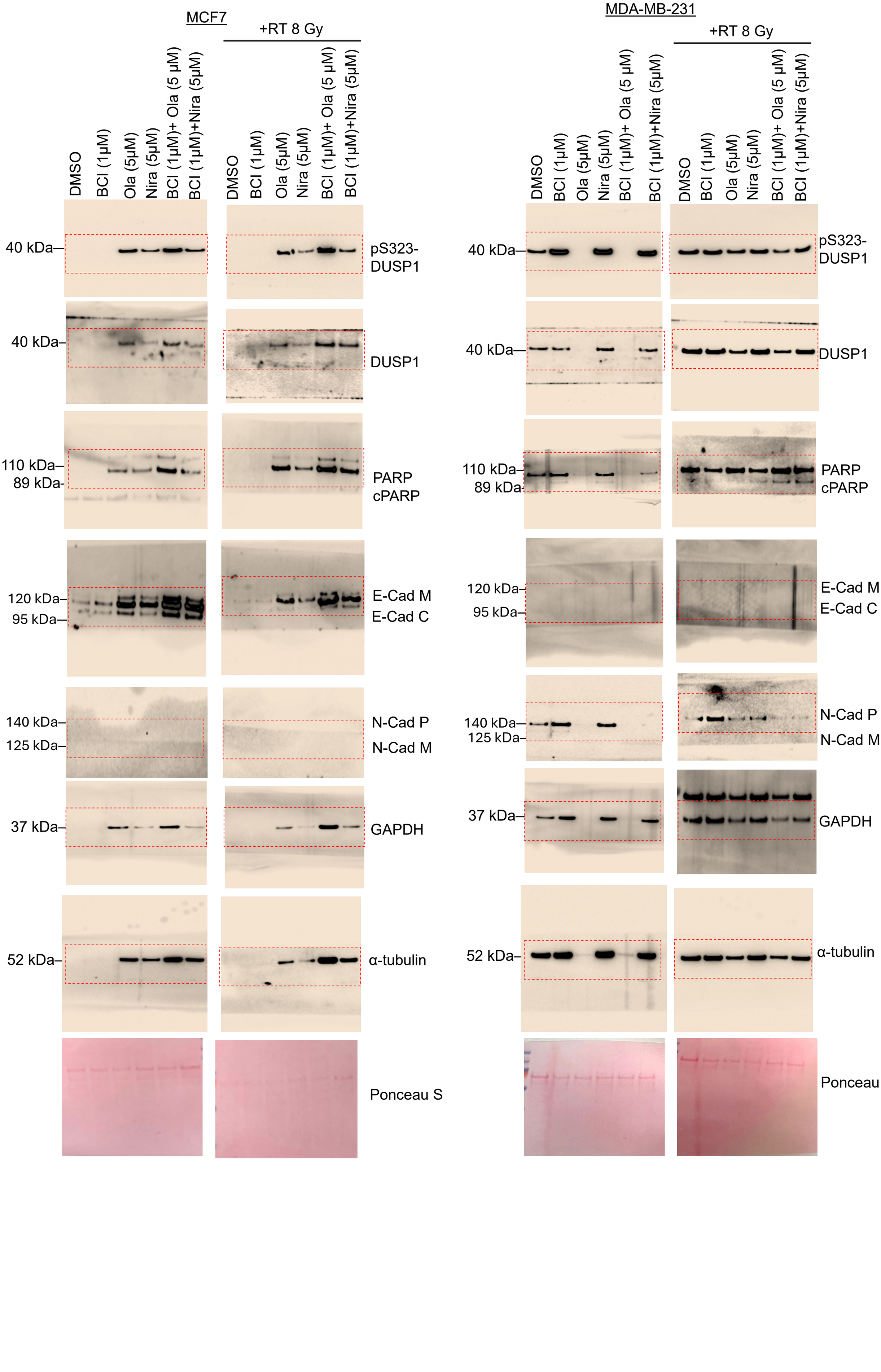
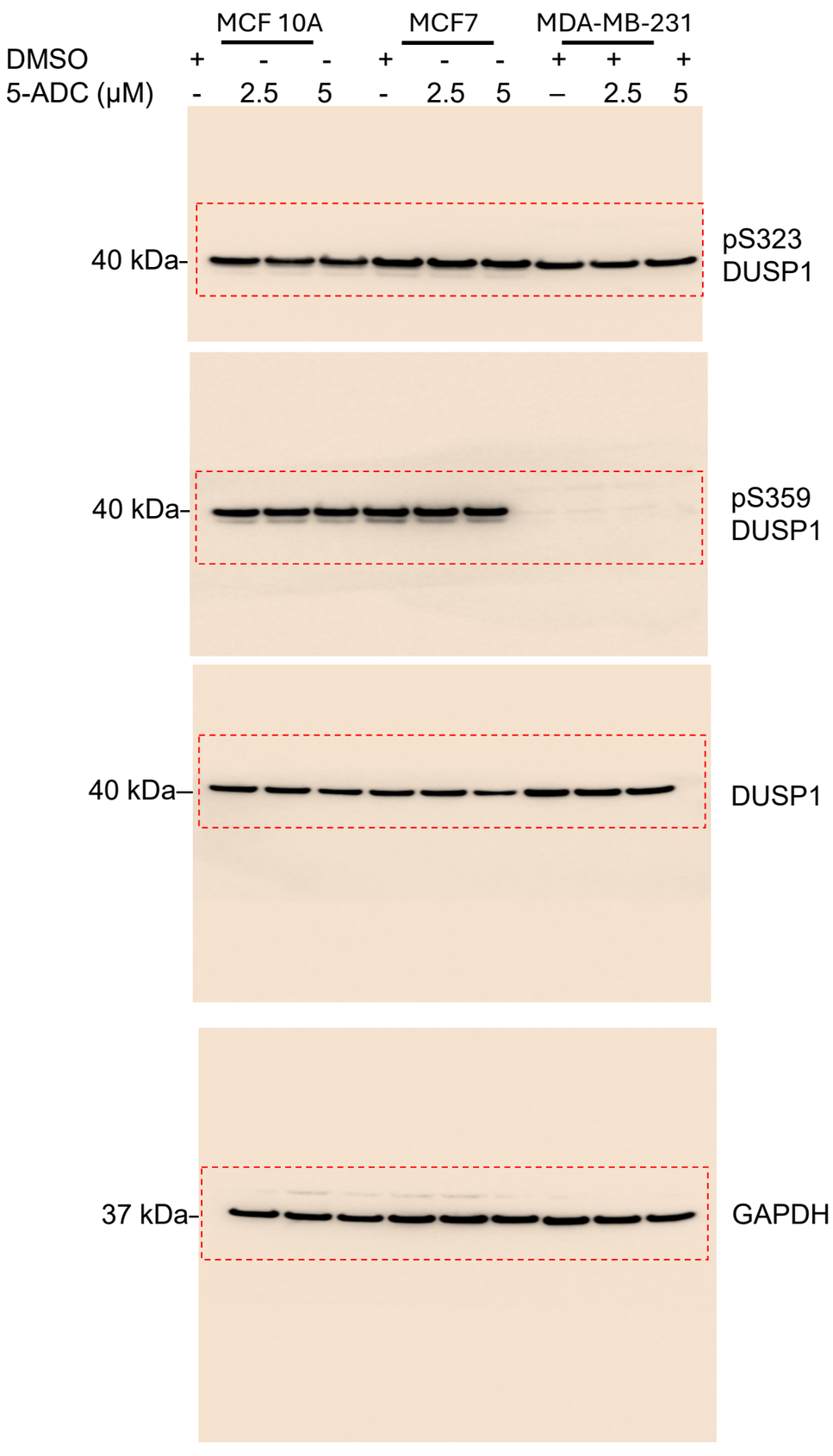

MCF7
+RT 8 Gy
MDA-MB-231
+RT 8 Gy
DMSO
BCI (1μM)
Ola (5μM)
Nira (5μM)
BCI (1μM)+ Ola (5 μM)
BCI (1μM)+Nira (5μM)
40 kDa
pS323-DUSP1
DUSP1
110 kDa
89 kDa
PARP
cPARP
120 kDa
95 kDa
E-Cad M
E-Cad C
140 kDa
125 kDa
N-Cad P
N-Cad M
37 kDa
GAPDH
52 kDa
α-tubulin
Ponceau S

Fig. S11


MCF 10A
MCF7
MDA-MB-231
DMSO + - - + - - + + +
5-ADC (μM) - 2.5 5 - 2.5 5 – 2.5 5
40 kDa-
pS323 DUSP1
40 kDa-
pS359 DUSP1
40 kDa–
DUSP1
37 kDa-
GAPDH