**The original blots for the figures**

**Note:** For our gel data, the target proteins analyzed by western blot were transferred from SDS-PAGE and the PVDF membrane would be sliced into different strips according to their protein size identified with the loading marker before hybridization with the antibody. Then the panel of antibodies targeting these proteins were used for western blot analysis. Our SOP for processing the gel data only collected the pictures with target protein regions instead of the whole gel, so here are the original gels for the data we presented in the manuscript (grayscale values below the blots).

**Fig. 1B~LC3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| hpi | 2 | 4 | 8 | 12 |



**Fig. 1B~β-tubulin**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| hpi | 2 | 4 | 8 | 12 |



**Fig. 1C~LC3**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| hpi | 16 | 20 | 24 | 28 | 32 | 36 |

**白板

描述已自动生成**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gray scale | Mock  CDV | 0.642  1.042 | 0.944  1.165 | 0.672  1.973 | 1.051  2.106 | 1.197  2.837 |

**Fig. 1C~CDV-N**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| hpi | 16 | 20 | 24 | 28 | 32 | 36 |

**图片包含 厨房, 冰箱, 炉子, 火炉

描述已自动生成**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gray scale | CDV | 0.230 | 0.720 | 2.618 | 4.268 | 5.582 |

**Fig. 1C~β-tubulin**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| hpi | 16 | 20 | 24 | 28 | 32 | 36 |

图片包含 游戏机, 冰箱, 炉子, 厨房

描述已自动生成

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gray scale | Mock  CDV | 1.569  1.611 | 1.922  1.558 | 1.446  1.822 | 2.053  1.948 | 2.236  2.264 |

**Fig. 2A~p62**

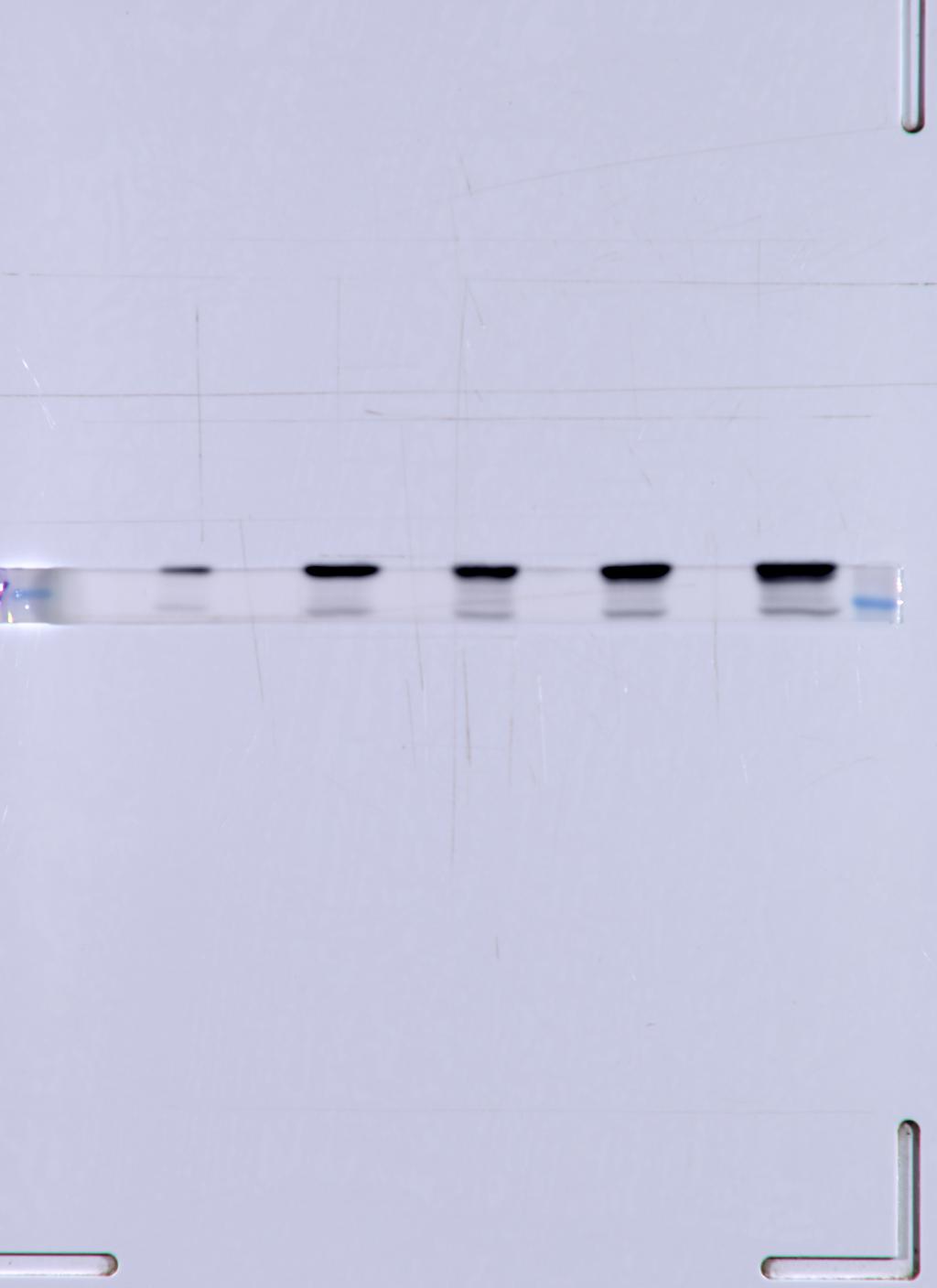
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| hpi | 24 | 28 | 32 | 36 | 40 |



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gray scale | 2.332  2.206 | 2.280  2.202 | 1.665  1.784 | 2.114  1.332 | 1.999  1.475 | Mock  CDV |

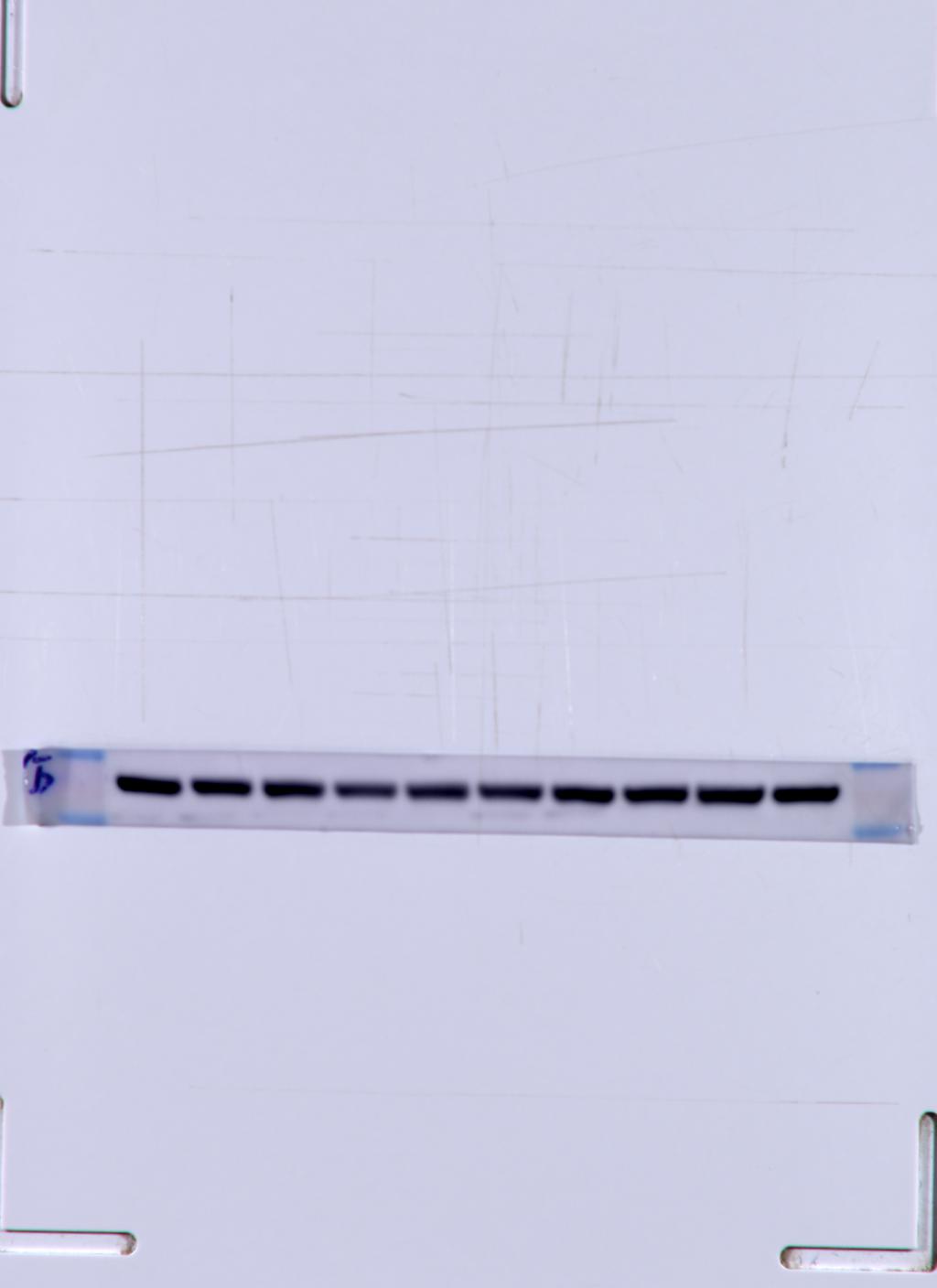
**Fig. 2A~CDV-N**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| hpi | 24 | 28 | 32 | 36 | 40 |



**Fig. 2A~β-tubulin**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| hpi | 24 | 28 | 32 | 36 | 40 |



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gray scale | 2.581  2.198 | 2.245  1.693 | 2.008  2.031 | 2.490  2.531 | 2.742  2.603 | Mock  CDV |

**Fig. 2C~CDV-N**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| hpi | 24 | | | 28 | | |
|  | mock | rapamycin | CDV | mock | rapamycin | CDV |



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Gray scale |  |  | 1.337  1.154 |  |  | 4.681  2.256 | E64d-  E64d+ |

**Fig. 2C~LC3**

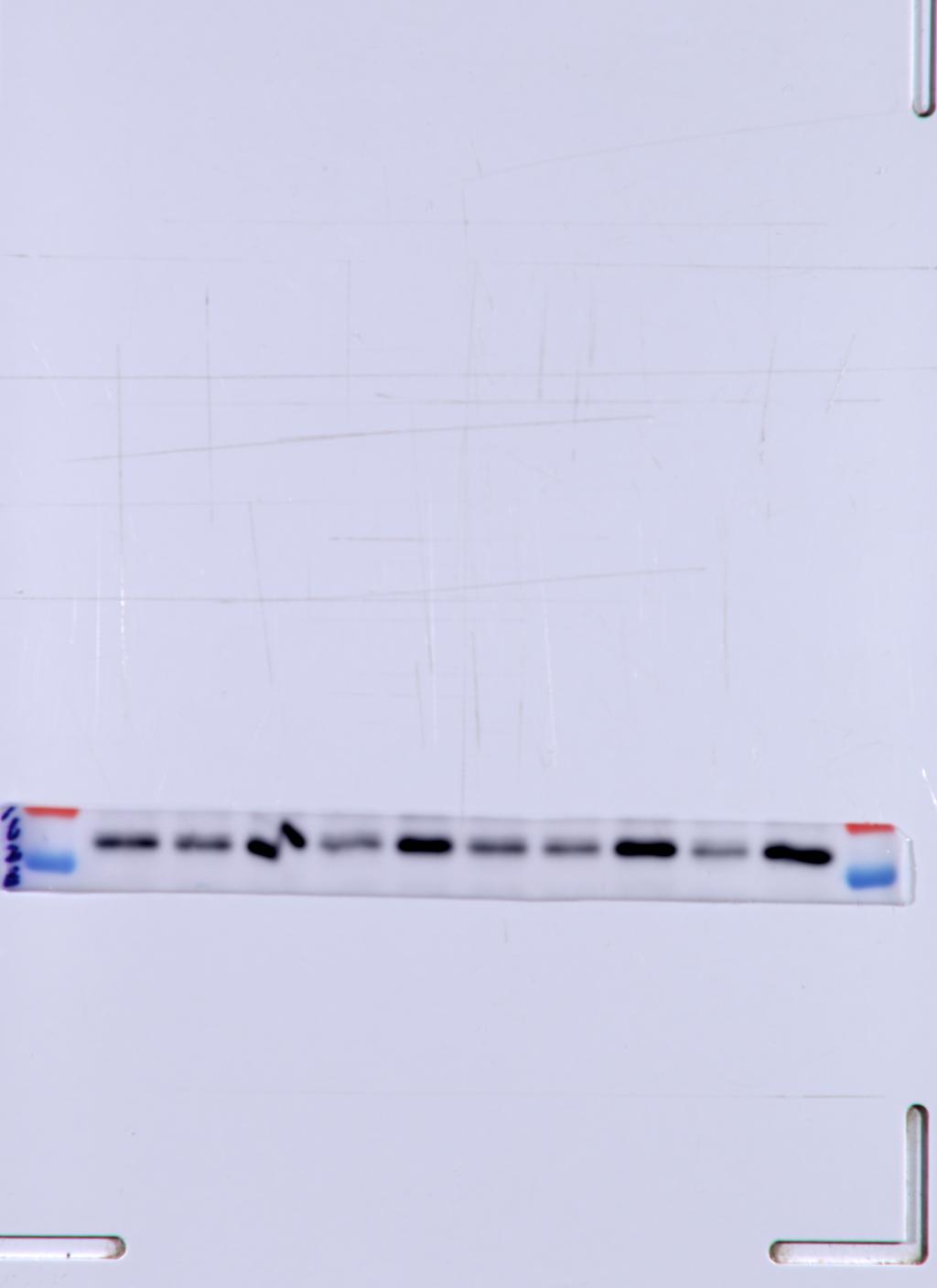
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| hpi | 24 | | | 28 | | |
|  | mock | rapamycin | CDV | mock | rapamycin | CDV |



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Gray scale | 0.647 | 1.292  2.593 | 1.657  2.273 | 1.194 | 1.470  2.478 | 1.919  3.096 | E64d-  E64d+ |

**Fig. 2C~p62**

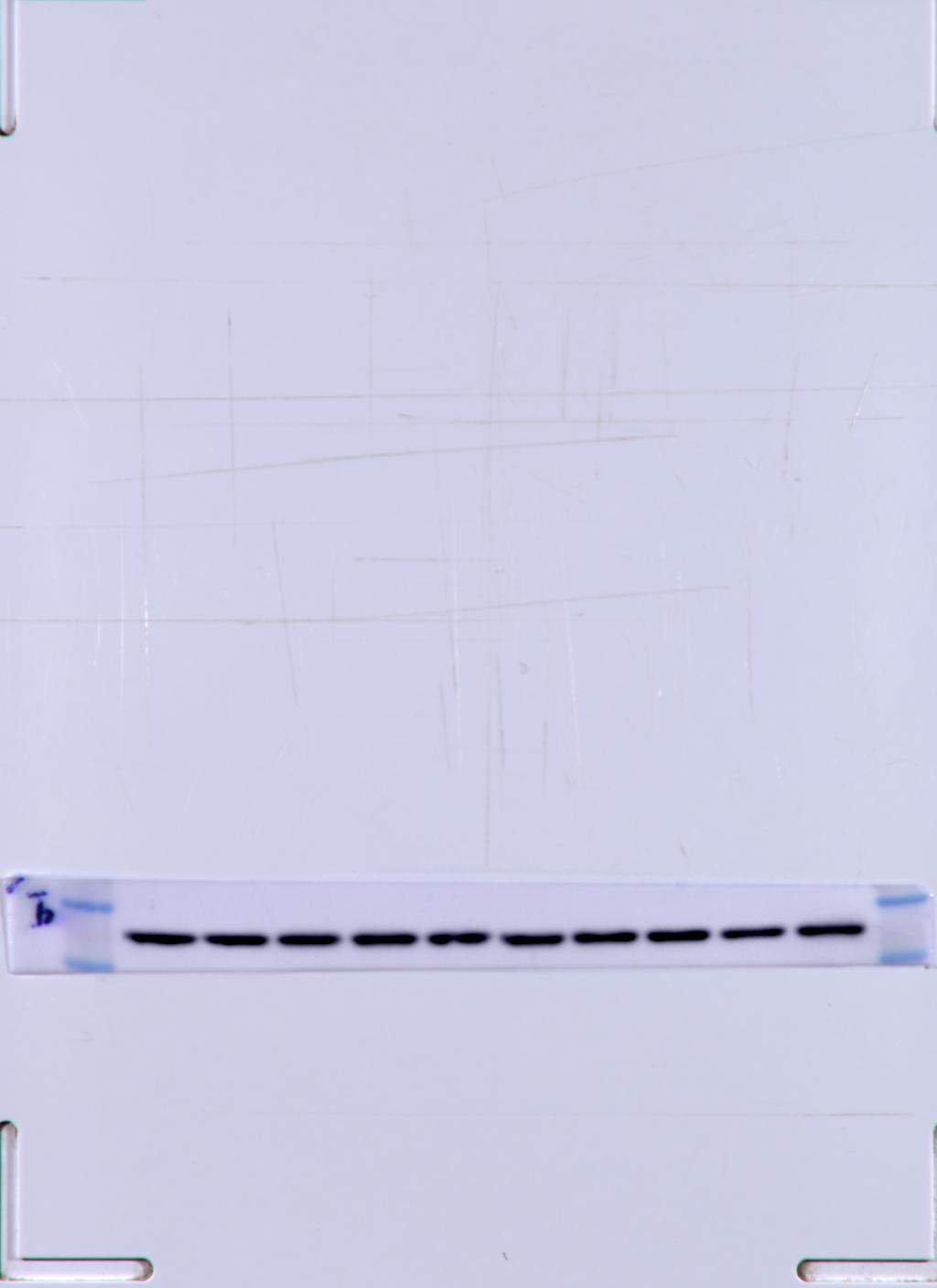
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| hpi | 24 | | | 28 | | |
|  | mock | rapamycin | CDV | mock | rapamycin | CDV |



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Gray scale | 1.717 | 1.179  2.544 | 1.063  2.316 | 1.209 | 0.922  2.674 | 0.805  2.948 | E64d-  E64d+ |

**Fig. 2C~β-tubulin**

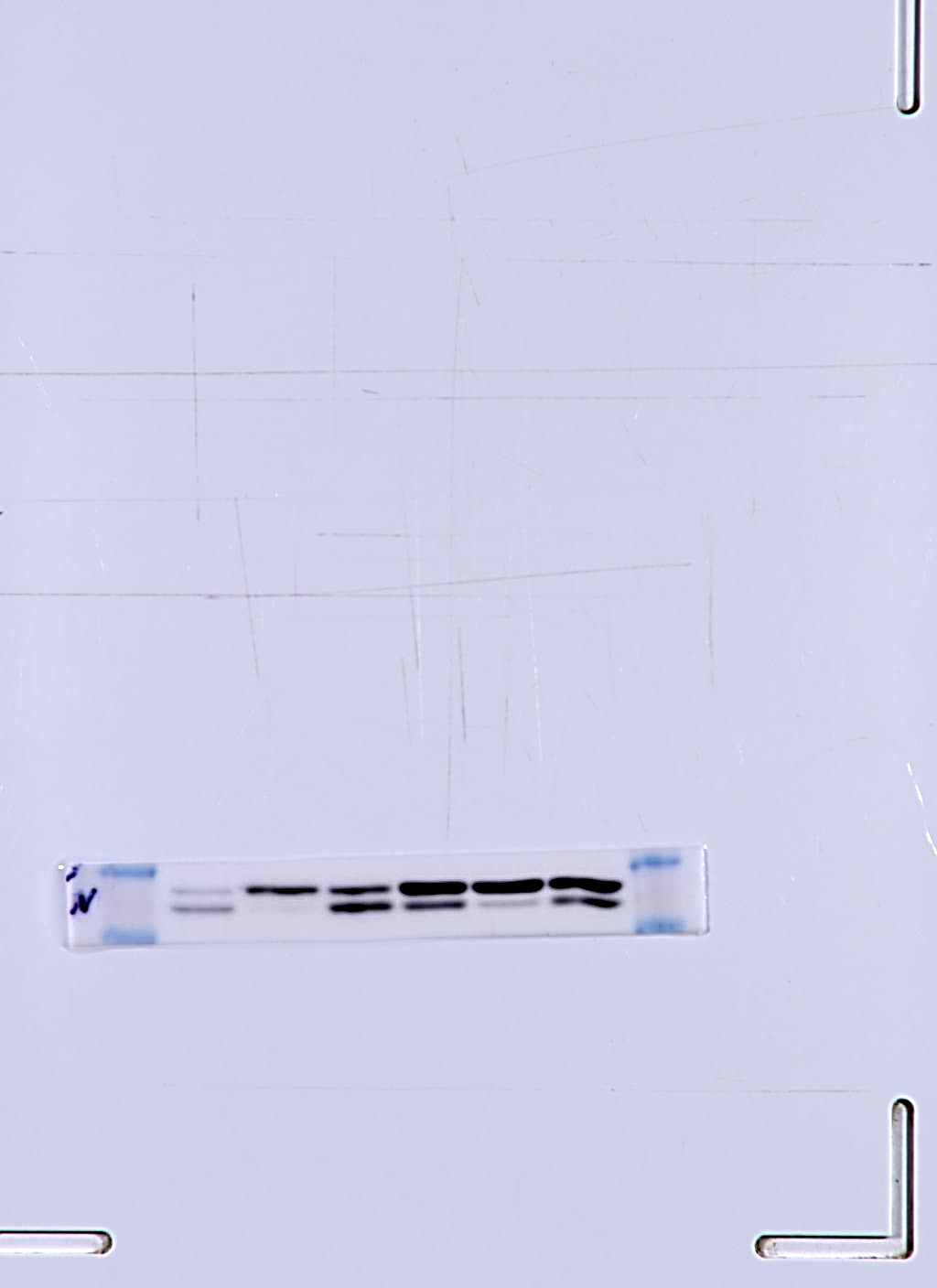
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| hpi | 24 | | | 28 | | |
|  | mock | rapamycin | CDV | mock | rapamycin | CDV |



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Gray scale | 2.078 | 1.822  1.835 | 2.006  1.841 | 1.853 | 1.890  1.878 | 1.636  1.955 | E64d-  E64d+ |

**Fig. 3A~CDV-N**

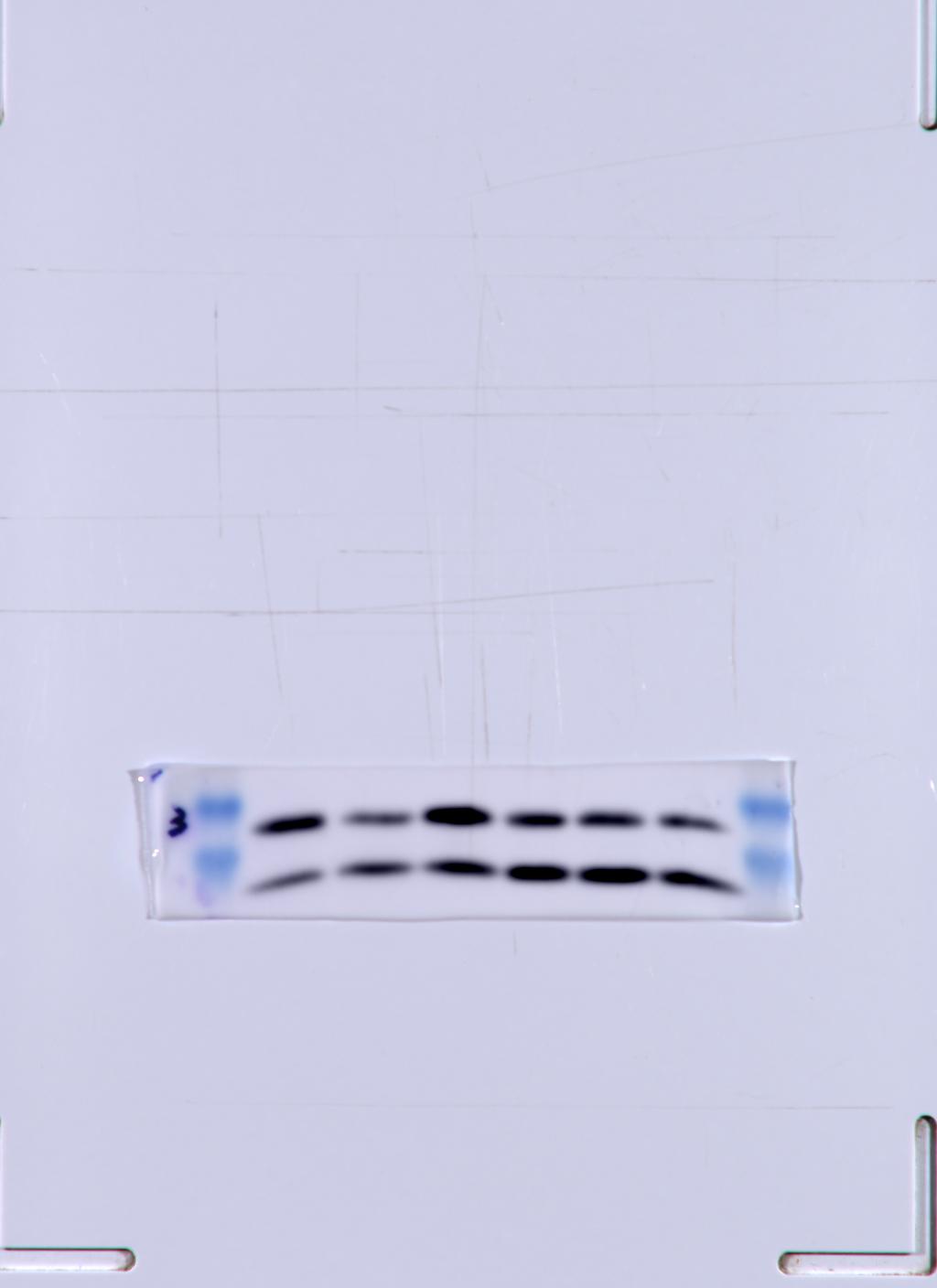
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| hpi | 26 | | 30 | | | |
|  | - | 200 | - | 200 | 500 | 1000 |



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gray scale | 0.157 | 1.310 | 1.177 | 2.623 | 2.594 | 2.638 |

**Fig. 3A~LC3**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| hpi | 26 | | 30 | | | |
|  | - | 200 | - | 200 | 500 | 1000 |



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gray scale | 1.236 | 1.806 | 2.383 | 2.630 | 2.996 | 2.450 |

**Fig. 3A~p62**

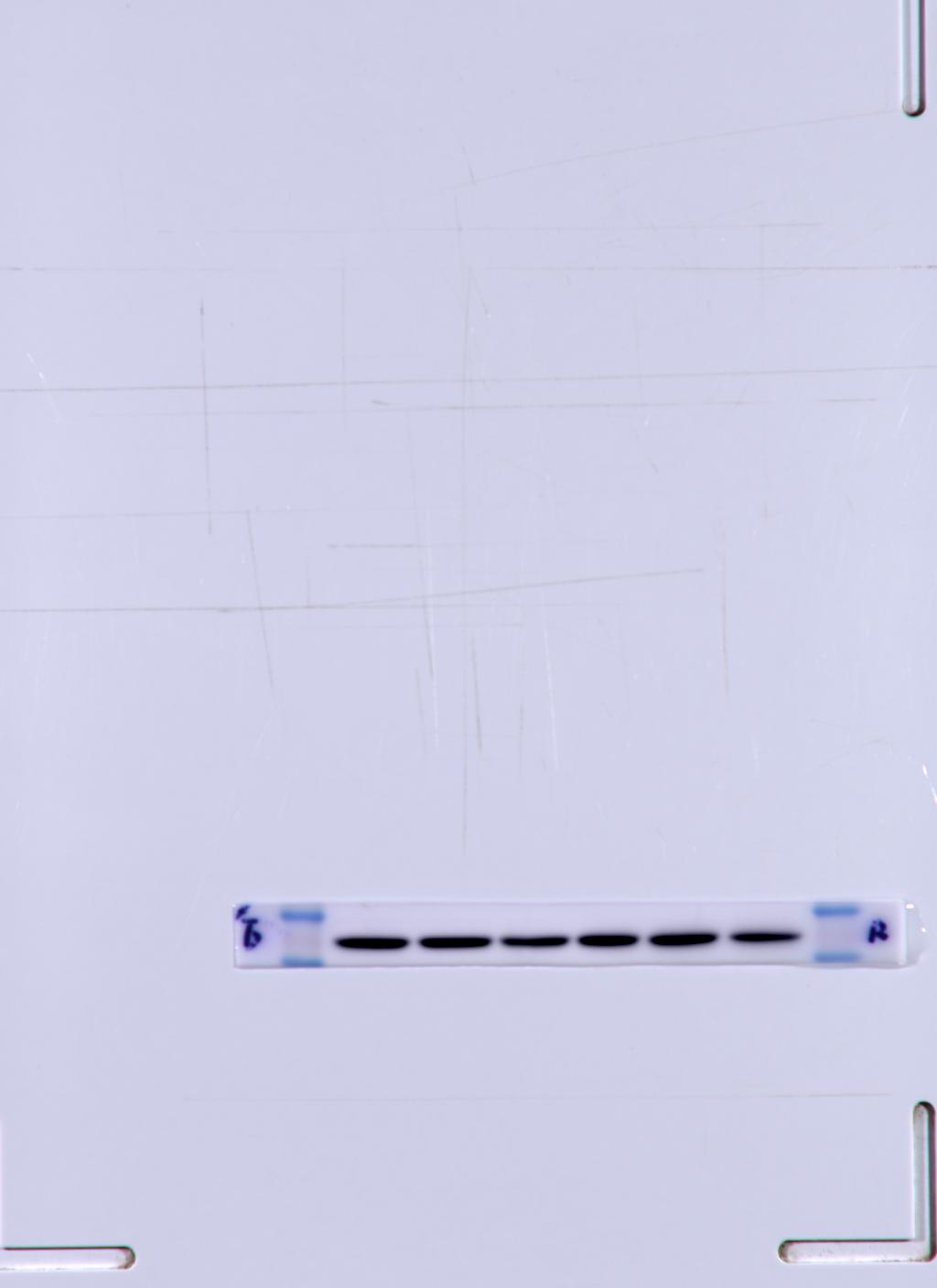
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| hpi | 26 | | 30 | | | |
|  | - | 200 | - | 200 | 500 | 1000 |

****

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gray scale | 3.105 | 2.031 | 2.933 | 1.776 | 2.053 | 1.820 |

**Fig. 3A~β-tubulin**

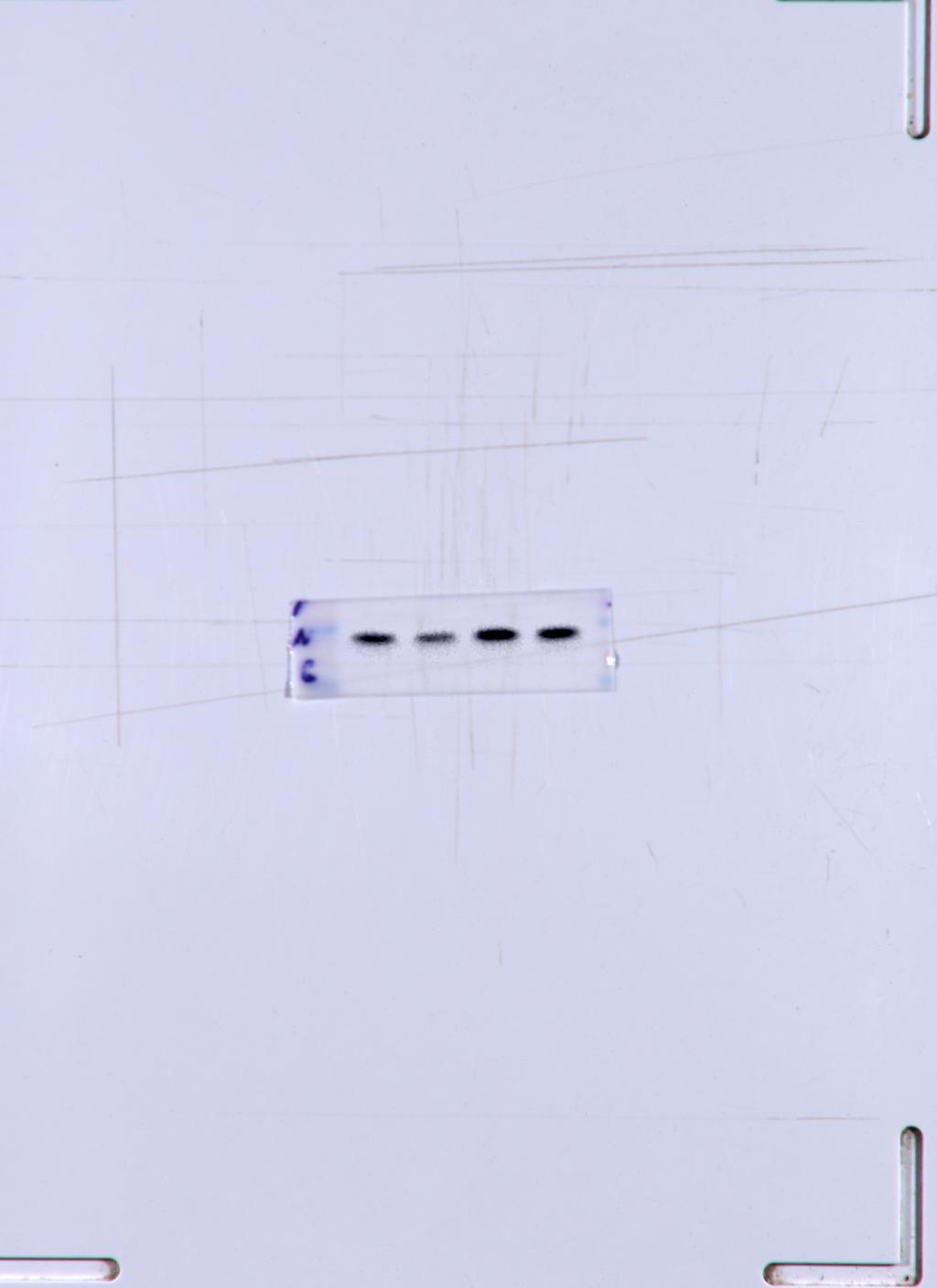
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| hpi | 26 | | 30 | | | |
|  | - | 200 | - | 200 | 500 | 1000 |

****

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gray scale | 2.507 | 2.449 | 2.007 | 2.155 | 2.623 | 2.160 |

**Fig. 4A~CDV-N**

|  |  |  |
| --- | --- | --- |
| hpi | 26 | 30 |

****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gray scale | 1.151 | 0.822 | 1.653 | 1.449 |

**Fig. 4A~p62**

|  |  |  |
| --- | --- | --- |
| hpi | 26 | 30 |

****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gray scale | 0.666 | 1.519 | 1.174 | 2.255 |

**Fig. 4A~LC3**

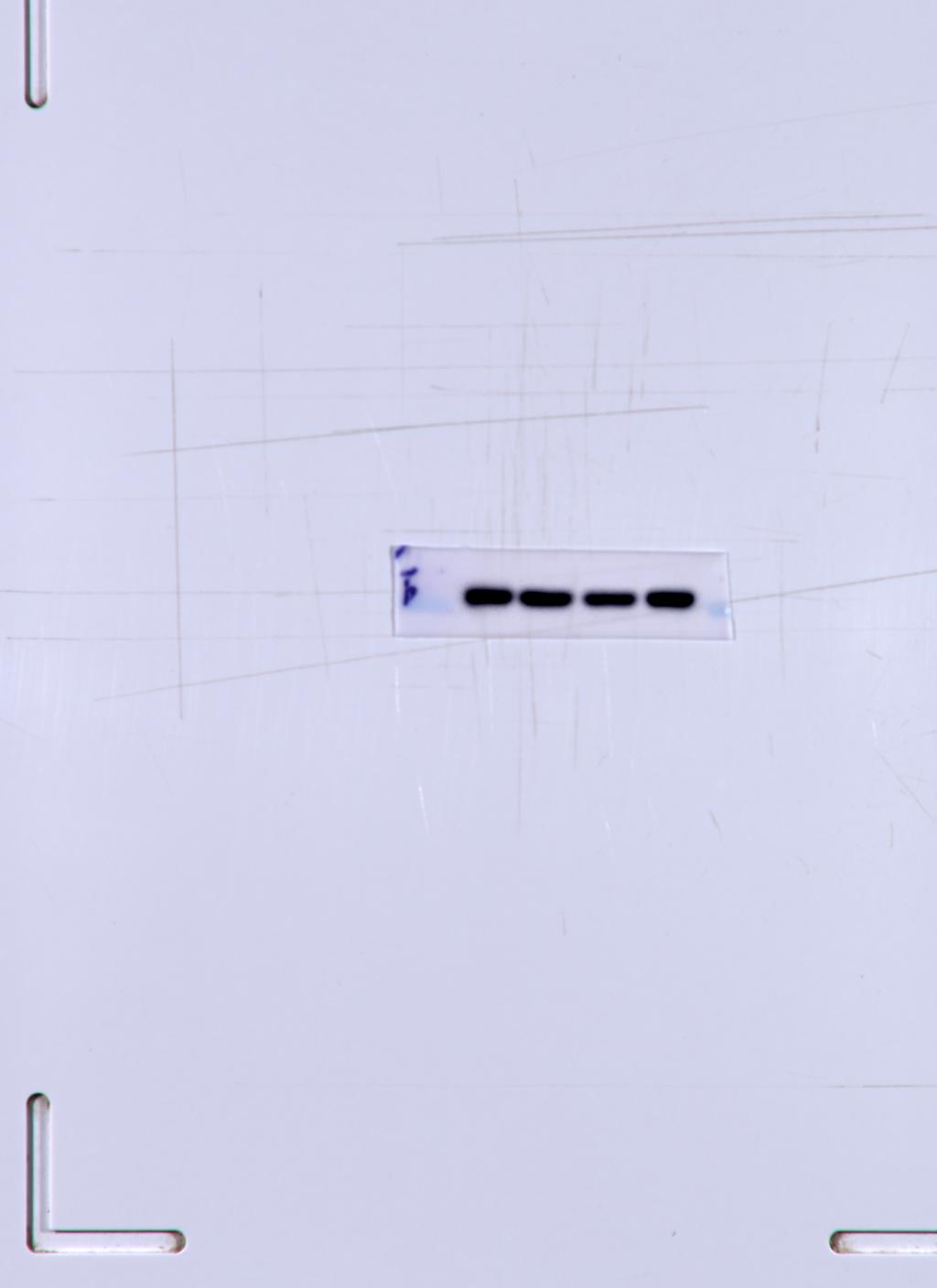
|  |  |  |
| --- | --- | --- |
| hpi | 26 | 30 |

****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gray scale | 0.853 | 2.011 | 2.089 | 2.434 |

**Fig. 4A~β-tubulin**

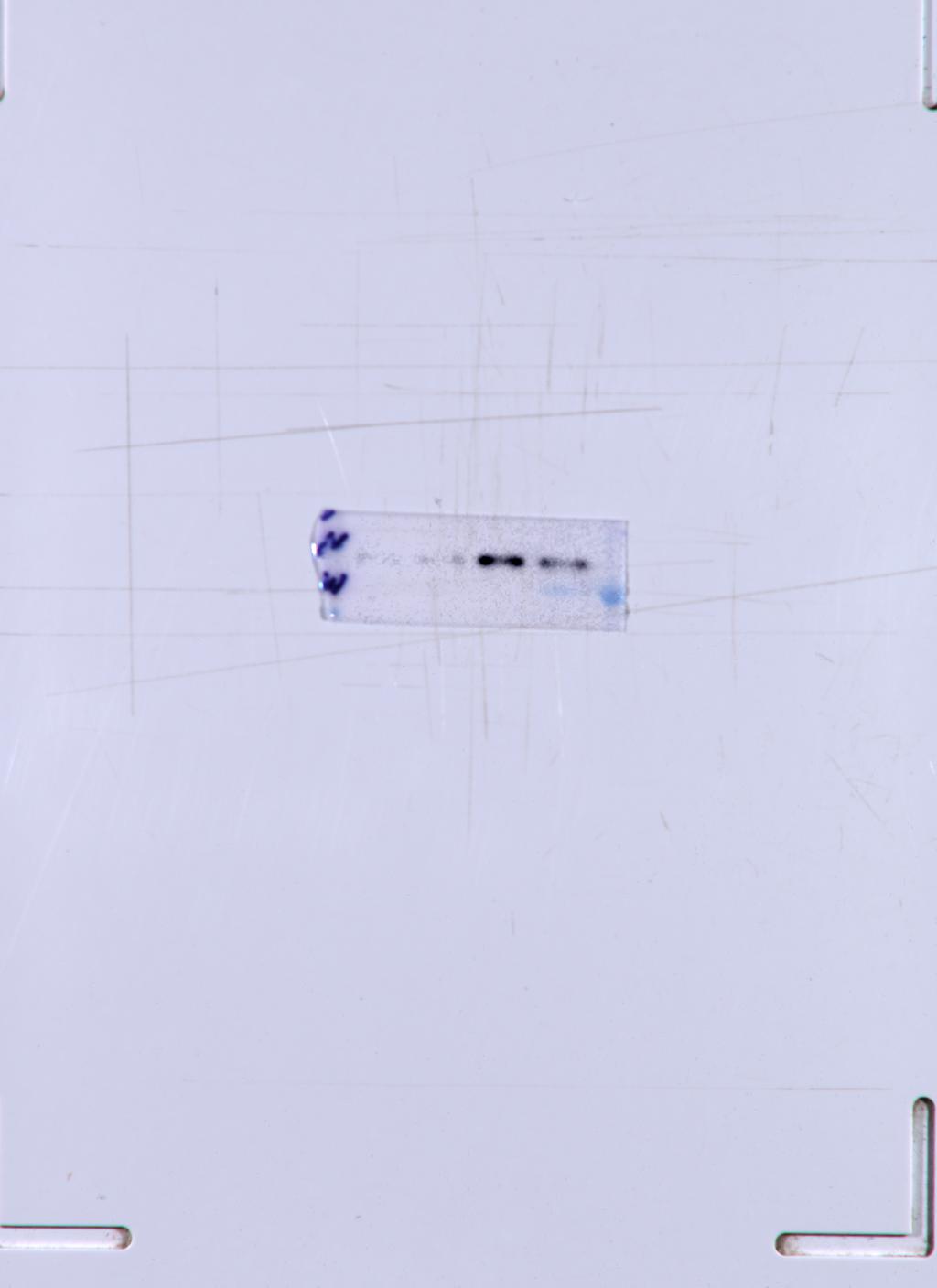
|  |  |  |
| --- | --- | --- |
| hpi | 26 | 30 |

****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gray scale | 2.645 | 2.647 | 2.536 | 2.638 |

**Fig. 4E~CDV-N**

|  |  |  |
| --- | --- | --- |
| hpi | 26 | 30 |

****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gray scale | 0.130 | 0.168 | 1.361 | 0.772 |

**Fig. 4E~p62**

|  |  |  |
| --- | --- | --- |
| hpi | 26 | 30 |

****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gray scale | 0.825 | 1.418 | 1.073 | 1.667 |

**Fig. 4E~LC3**

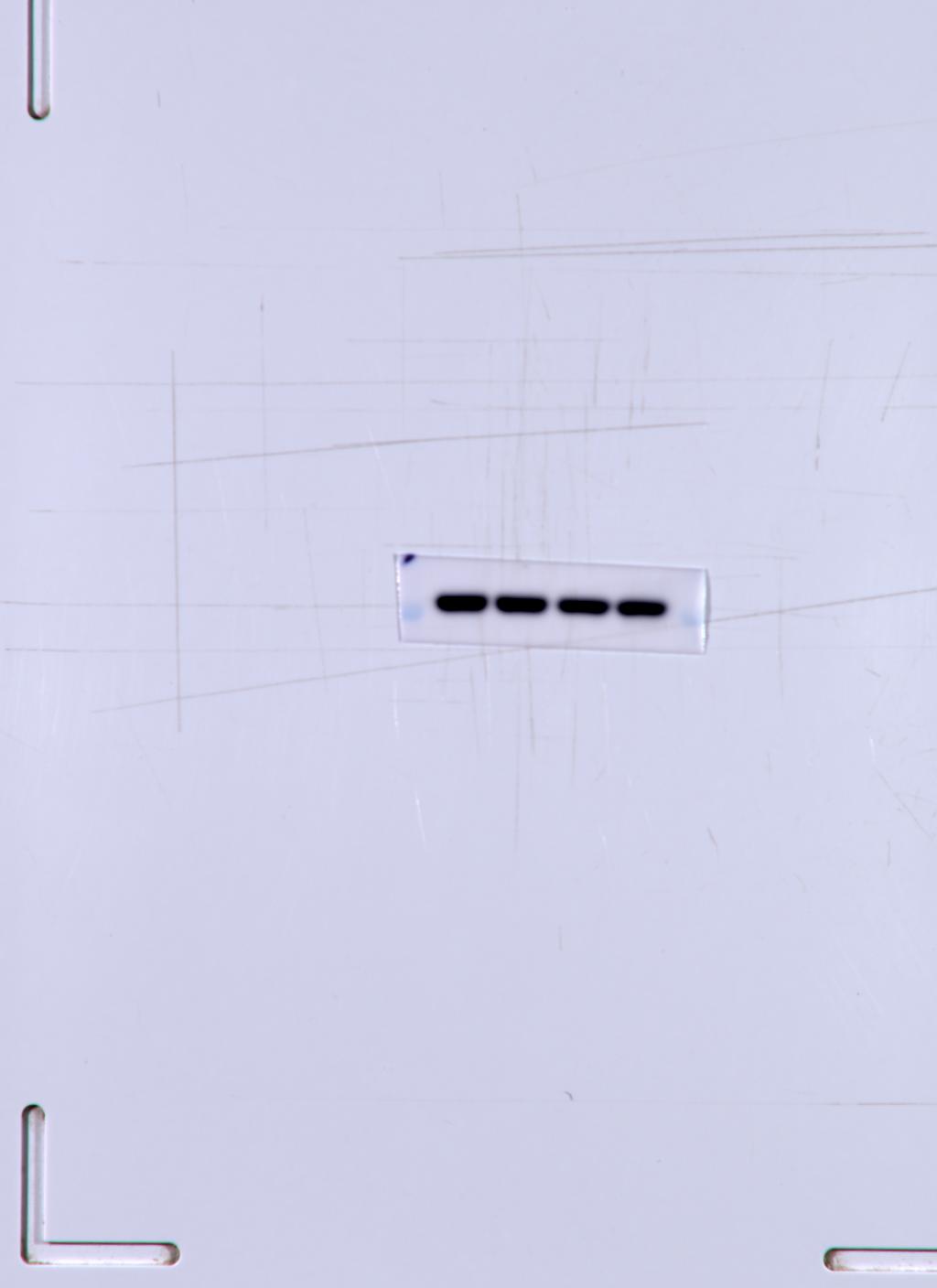
|  |  |  |
| --- | --- | --- |
| hpi | 26 | 30 |

****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gray scale | 1.086 | 0.942 | 2.086 | 1.811 |

**Fig. 4E~β-tubulin**

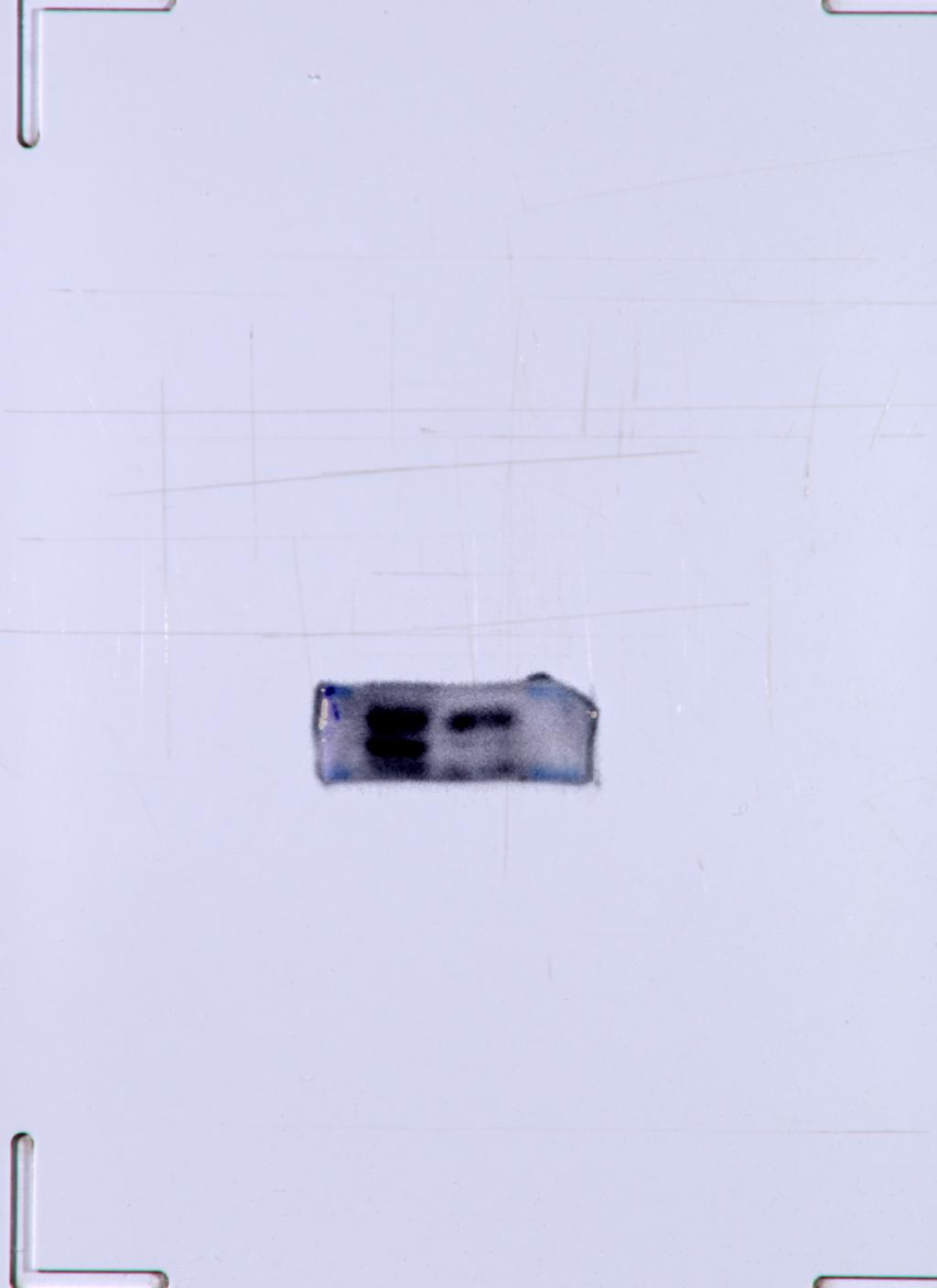
|  |  |  |
| --- | --- | --- |
| hpi | 26 | 30 |

****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gray scale | 2.864 | 2.846 | 2.784 | 2.759 |

**Fig. 5A~ATG5**

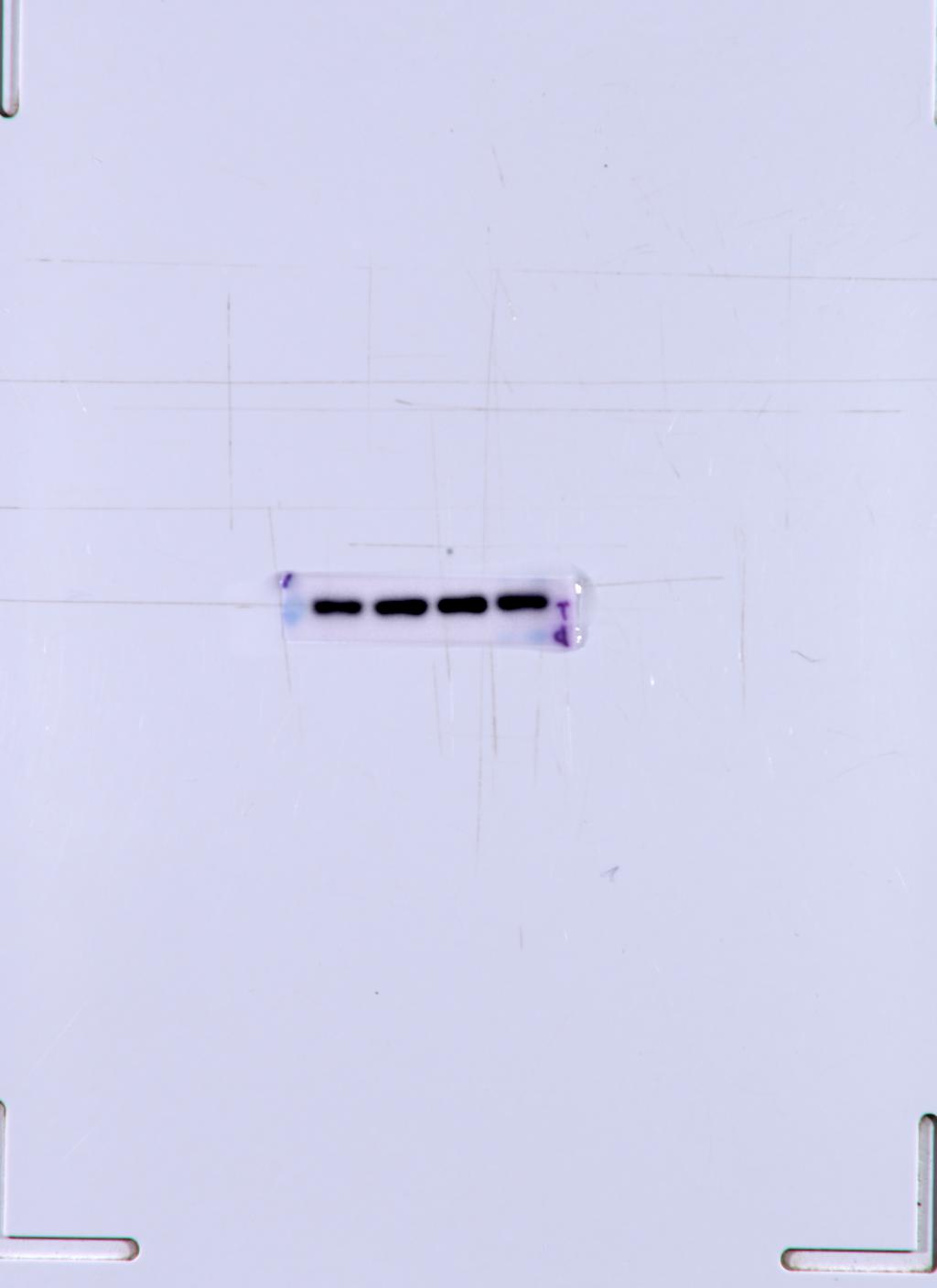
|  |  |  |
| --- | --- | --- |
|  | si-  control | si-  ATG5 |

****

|  |  |  |
| --- | --- | --- |
| Gray scale | 3.511 | 1.868 |

**Fig. 5A~β-tubulin**

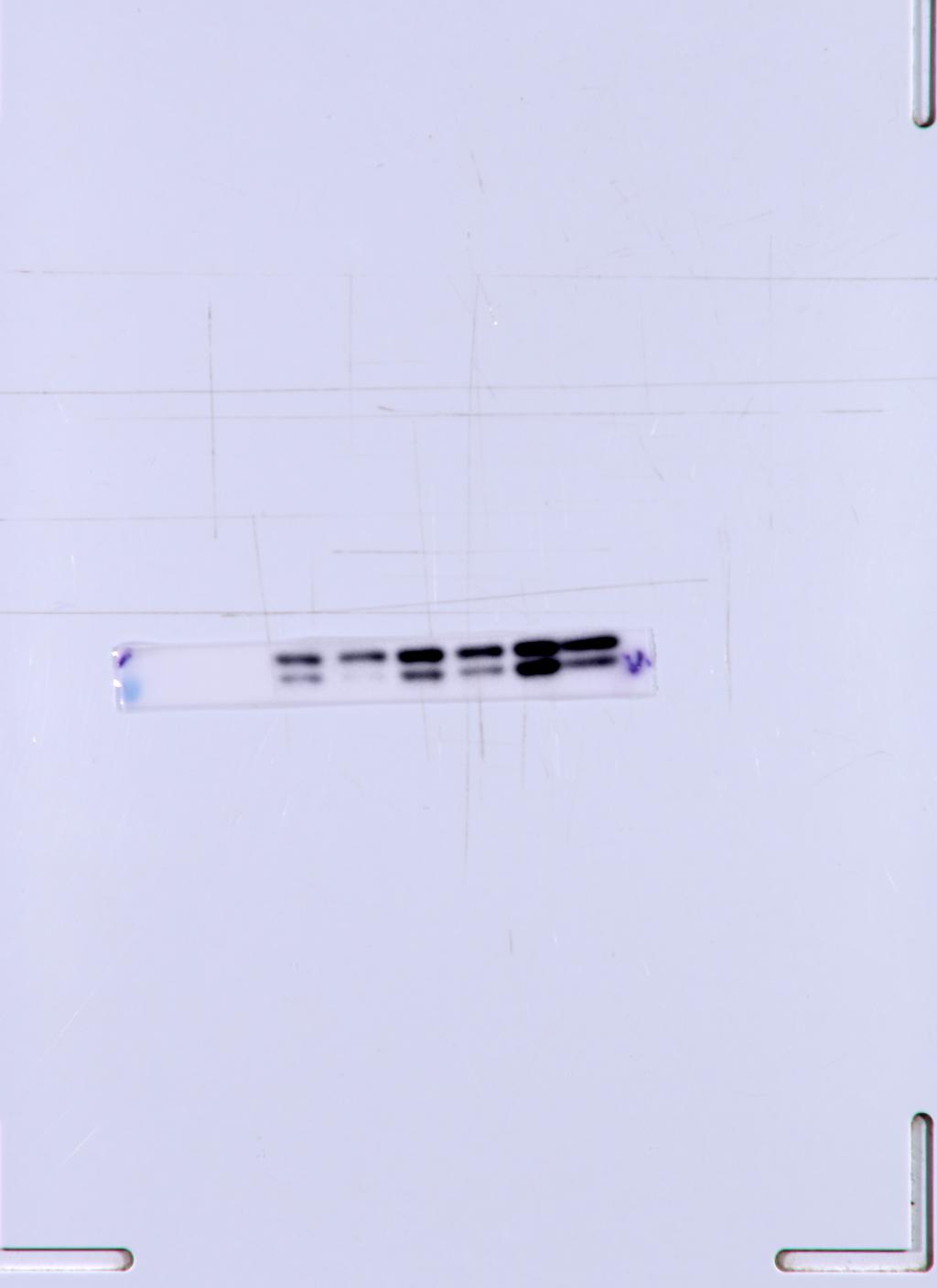
|  |  |  |
| --- | --- | --- |
|  | si-  control | si-  ATG5 |

****

|  |  |  |
| --- | --- | --- |
| Gray scale | 2.637 | 2.864 |

**Fig. 5C~CDV-N**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| hpi | 32 | | 24 | | 28 | | 32 | |
|  | si-  control | si-  ATG5 | si-  control | si-  ATG5 | si-  control | si-  ATG5 | si-  control | si-  ATG5 |

****

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Gray scale |  |  | 1.824 | 1.223 | 3.876 | 2.648 | 5.174 | 3.981 |

**Fig. 5C~LC3**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| hpi | 32 | | 24 | | 28 | | 32 | |
|  | si-  control | si-  ATG5 | si-  control | si-  ATG5 | si-  control | si-  ATG5 | si-  control | si-  ATG5 |

****

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Gray scale |  |  | 0.905 | 0.470 | 1.667 | 0.976 | 1.908 | 0.777 |

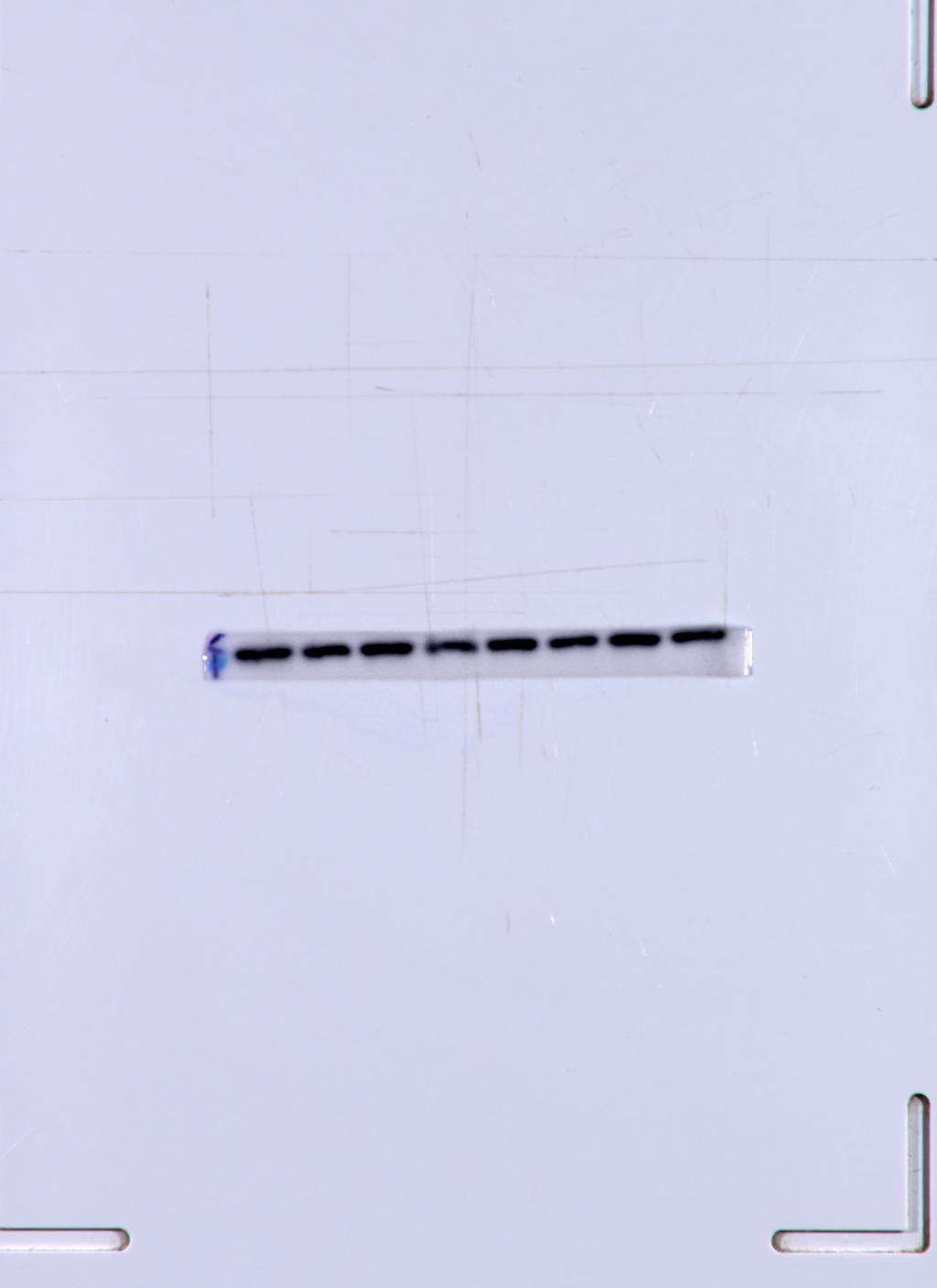
**Fig. 5C~p62**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| hpi | 32 | | 24 | | 28 | | 32 | |
|  | si-  control | si-  ATG5 | si-  control | si-  ATG5 | si-  control | si-  ATG5 | si-  control | si-  ATG5 |

****

**Fig. 5C~β-tubulin**

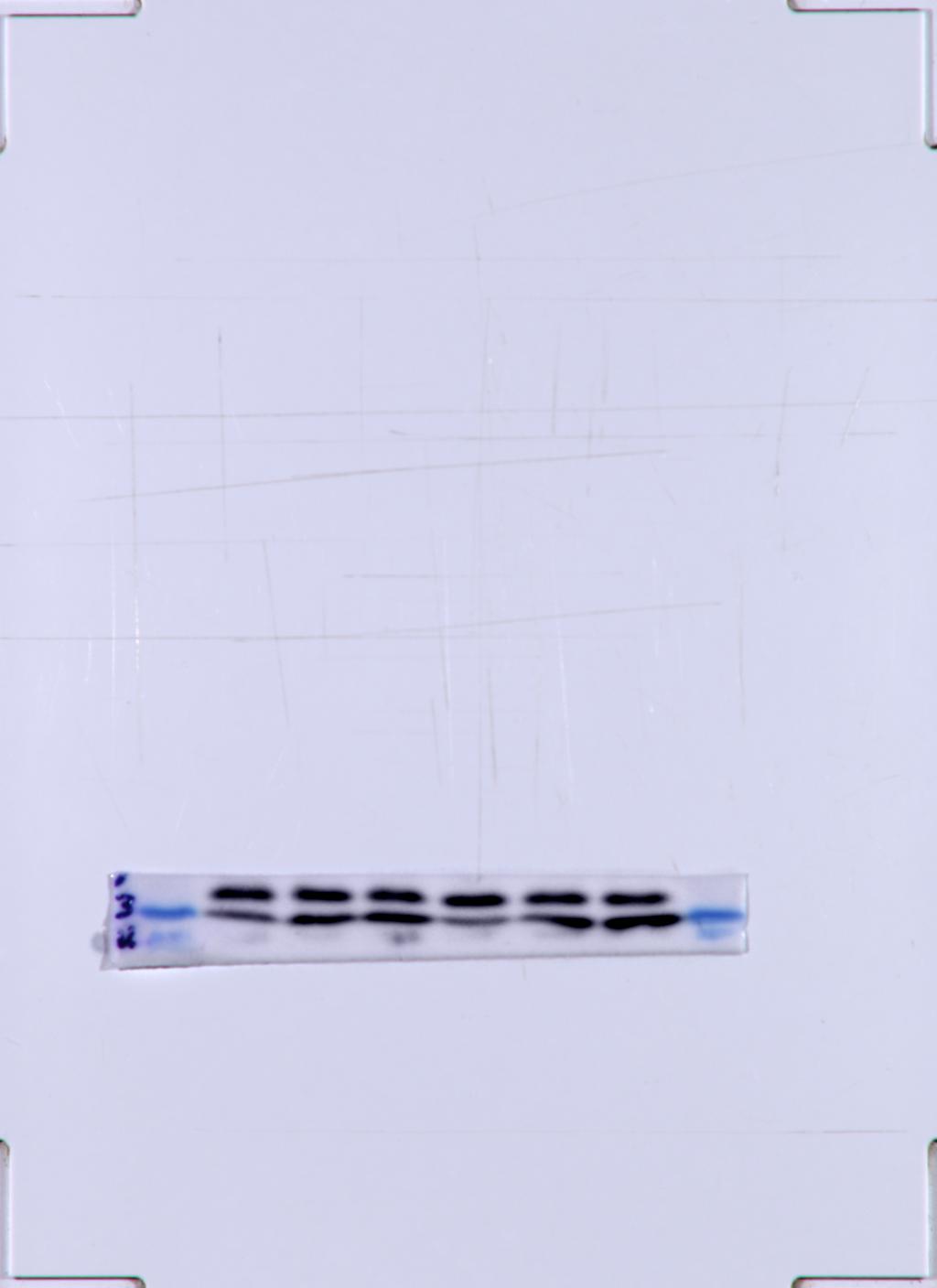
|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| hpi | 32 | | 24 | | 28 | | 32 | |
|  | si-  control | si-  ATG5 | si-  control | si-  ATG5 | si-  control | si-  ATG5 | si-  control | si-  ATG5 |



|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Gray scale | 2.102 | 1.982 | 1.997 | 1.938 | 1.921 | 1.876 | 1.978 | 1.849 |

**Fig. 6C~LC3**

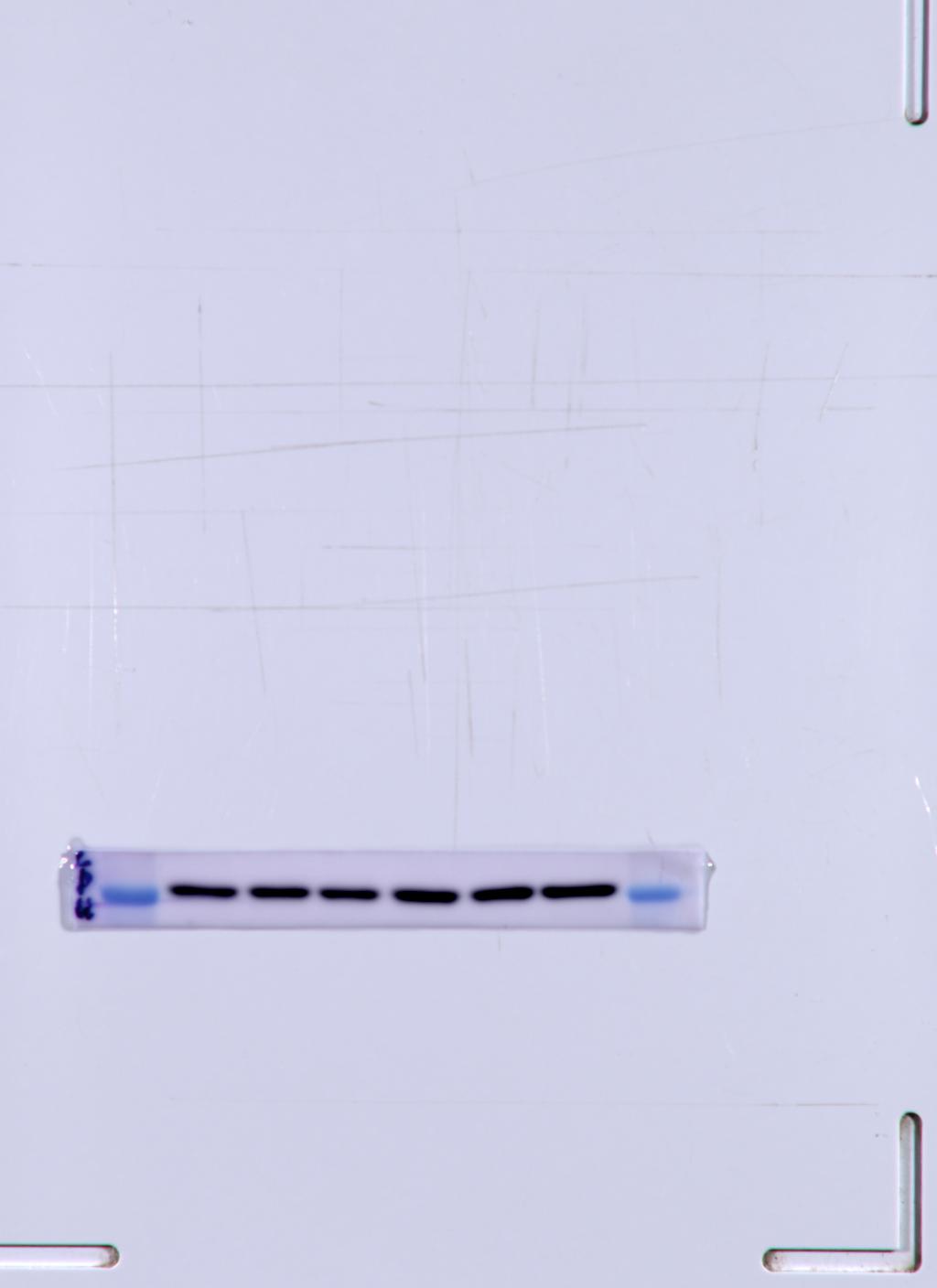
|  |  |  |
| --- | --- | --- |
| hpi | 28 | 32 |



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gray scale | 1.302 | 2.164 | 2.404 | 1.034 | 2.043 | 2.435 |

**Fig. 6C~β-tubulin**

|  |  |  |
| --- | --- | --- |
| hpi | 28 | 32 |



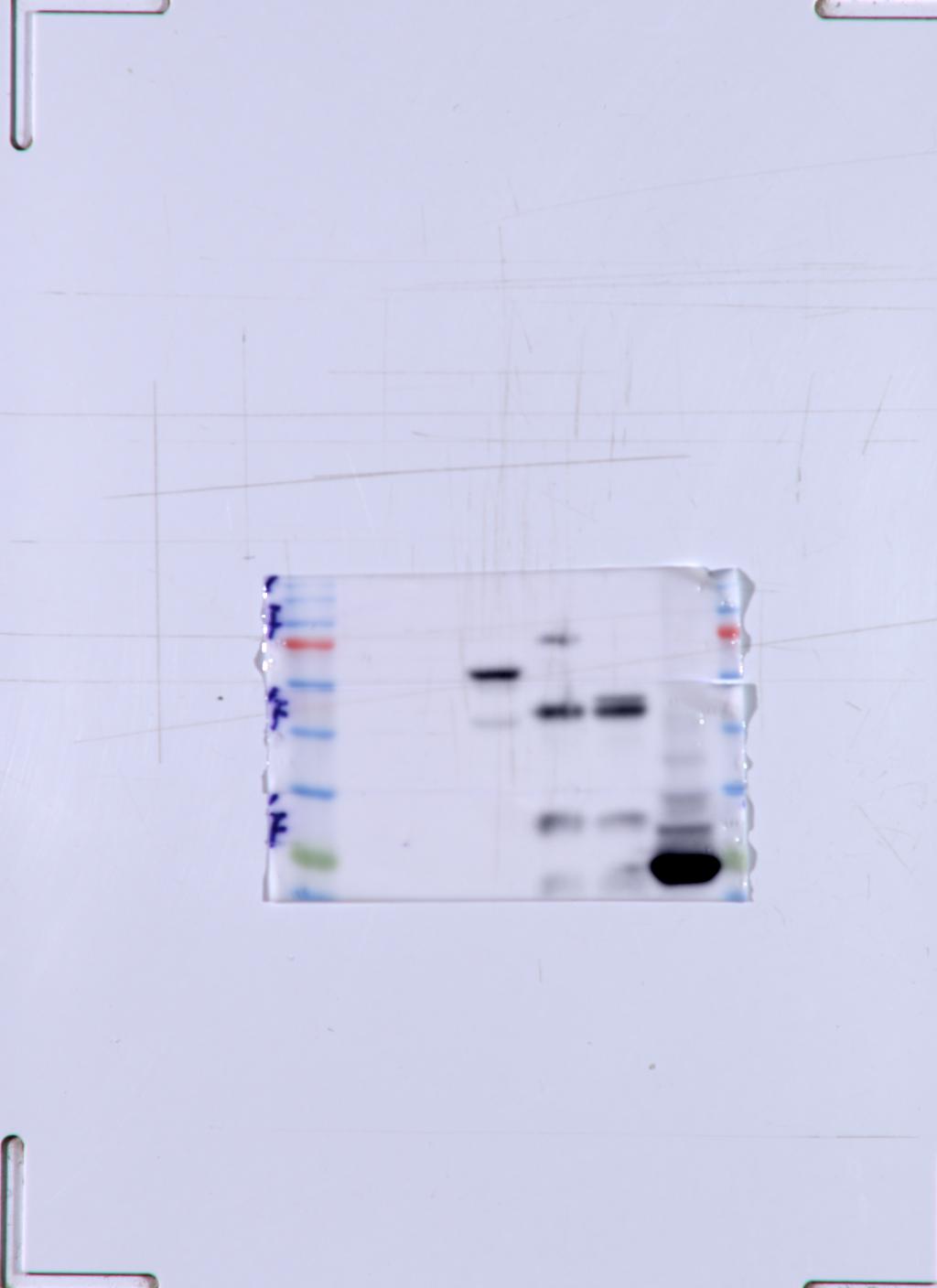
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gray scale | 2.121 | 2.122 | 2.119 | 2.232 | 2.231 | 2.234 |

**Fig. 6E~Flag**

mock

p3×Flag-CMV

p3×Flag-CMV-N



**Fig. 6E~β-tubulin**

mock

p3×Flag-CMV

p3×Flag-CMV-N

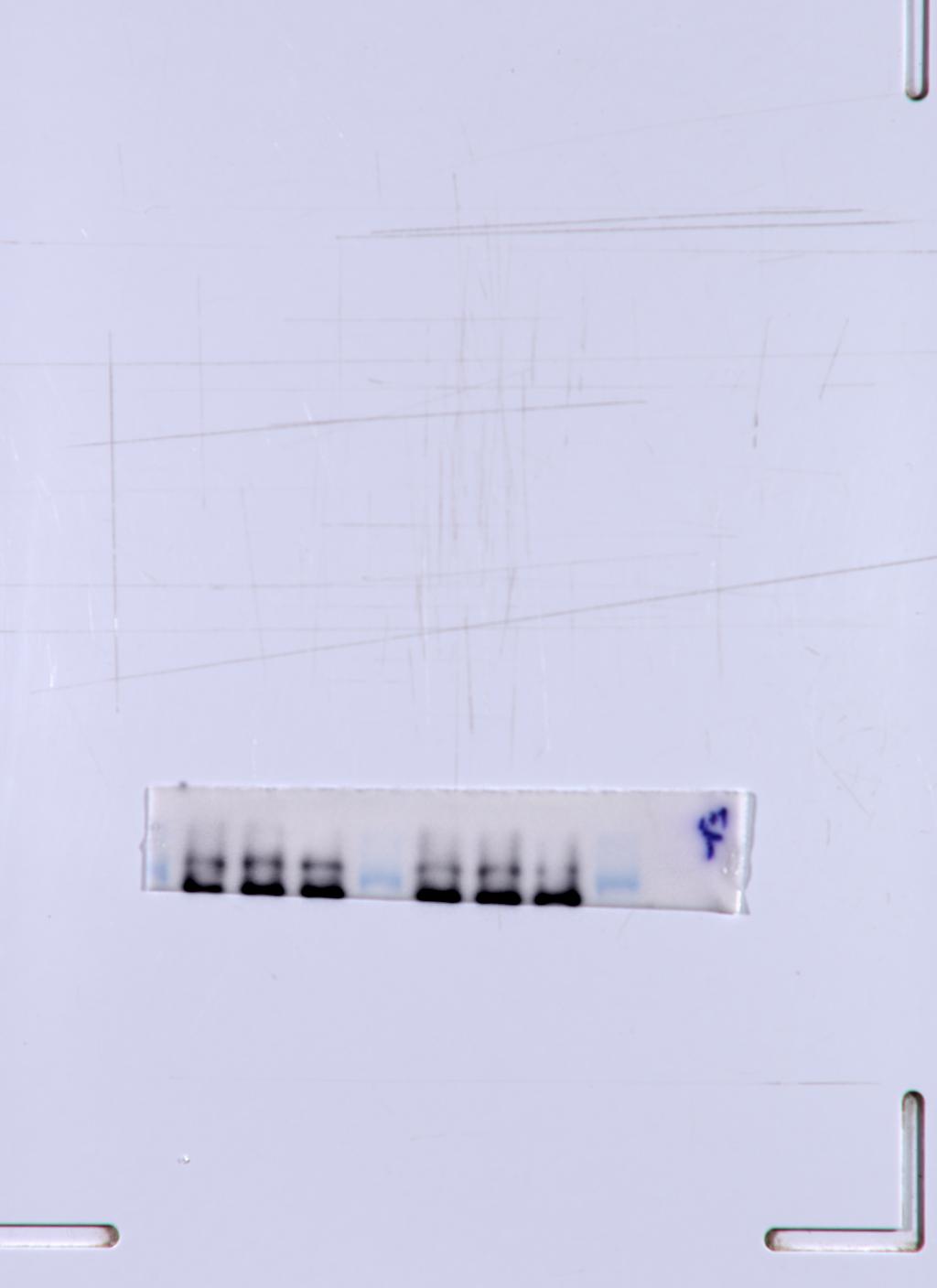


**Fig. 6F~p-mTOR**



|  |  |  |  |
| --- | --- | --- | --- |
| Gray scale | 0.563 | 0.579 | 0.314 |

**Fig. 6F~mTOR**



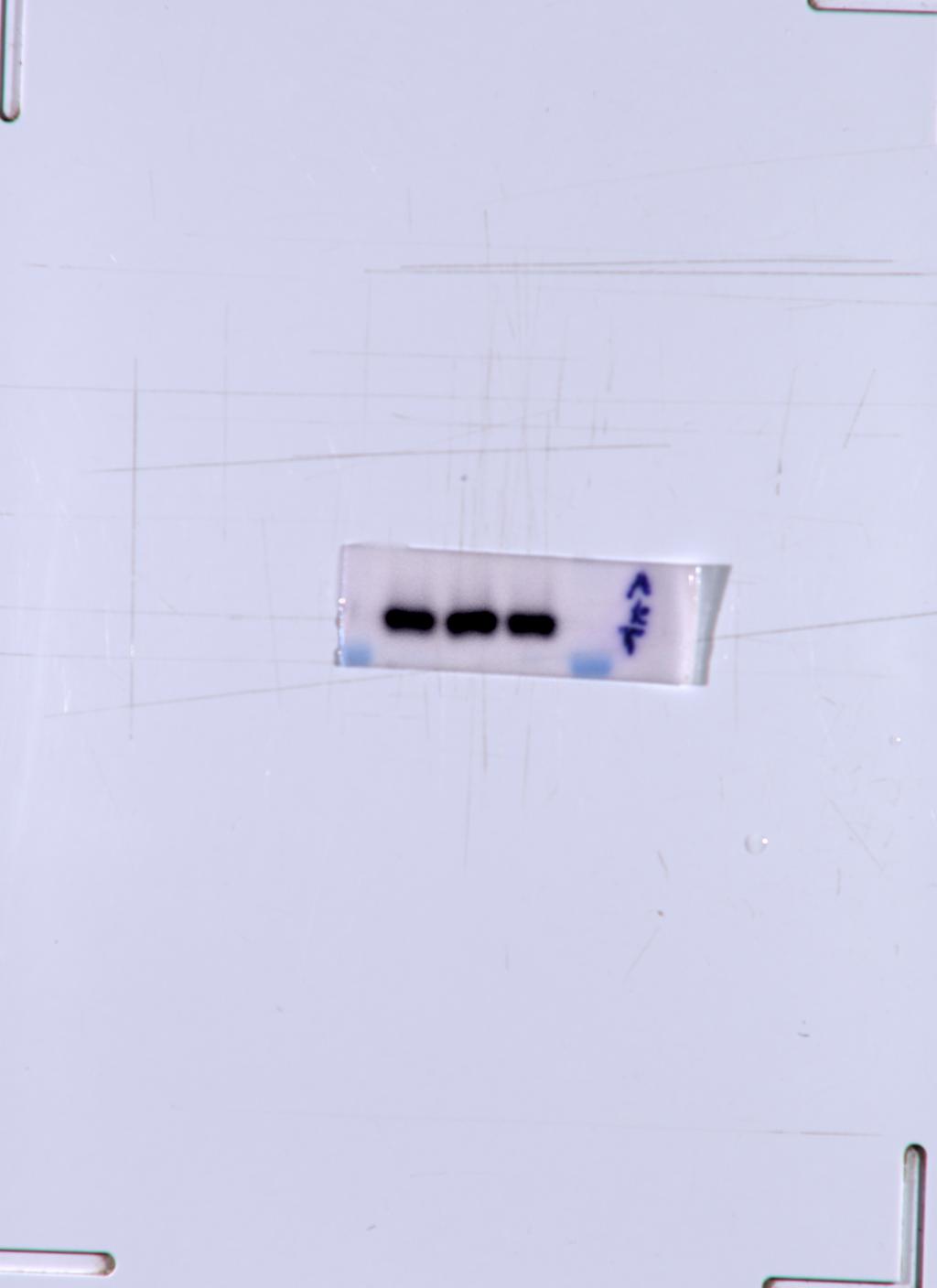
|  |  |  |  |
| --- | --- | --- | --- |
| Gray scale | 1.730 | 2.025 | 2.026 |

**Fig. 6F~p-AKT**



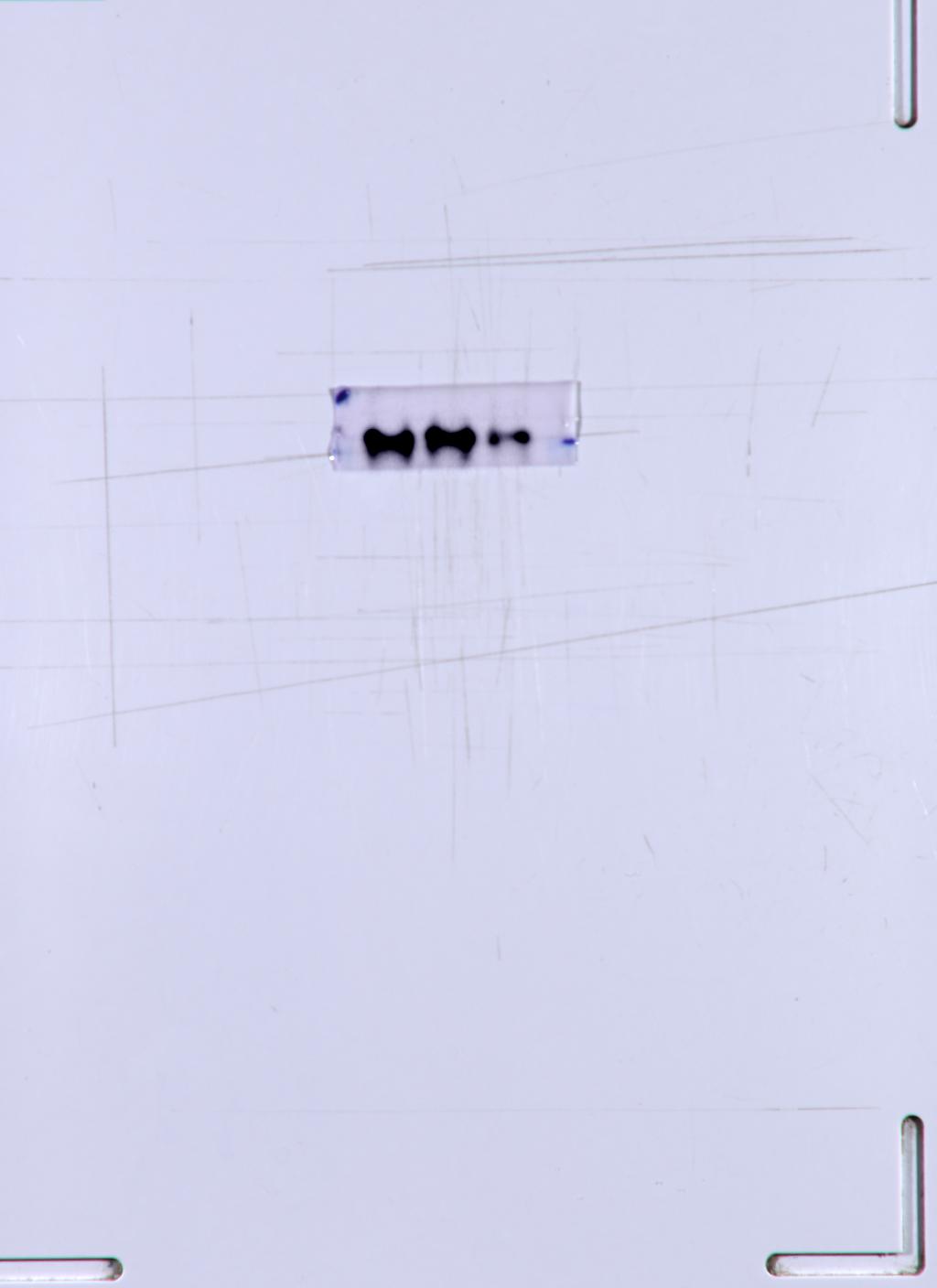
|  |  |  |  |
| --- | --- | --- | --- |
| Gray scale | 2.284 | 2.674 | 1.599 |

**Fig. 6F~AKT**



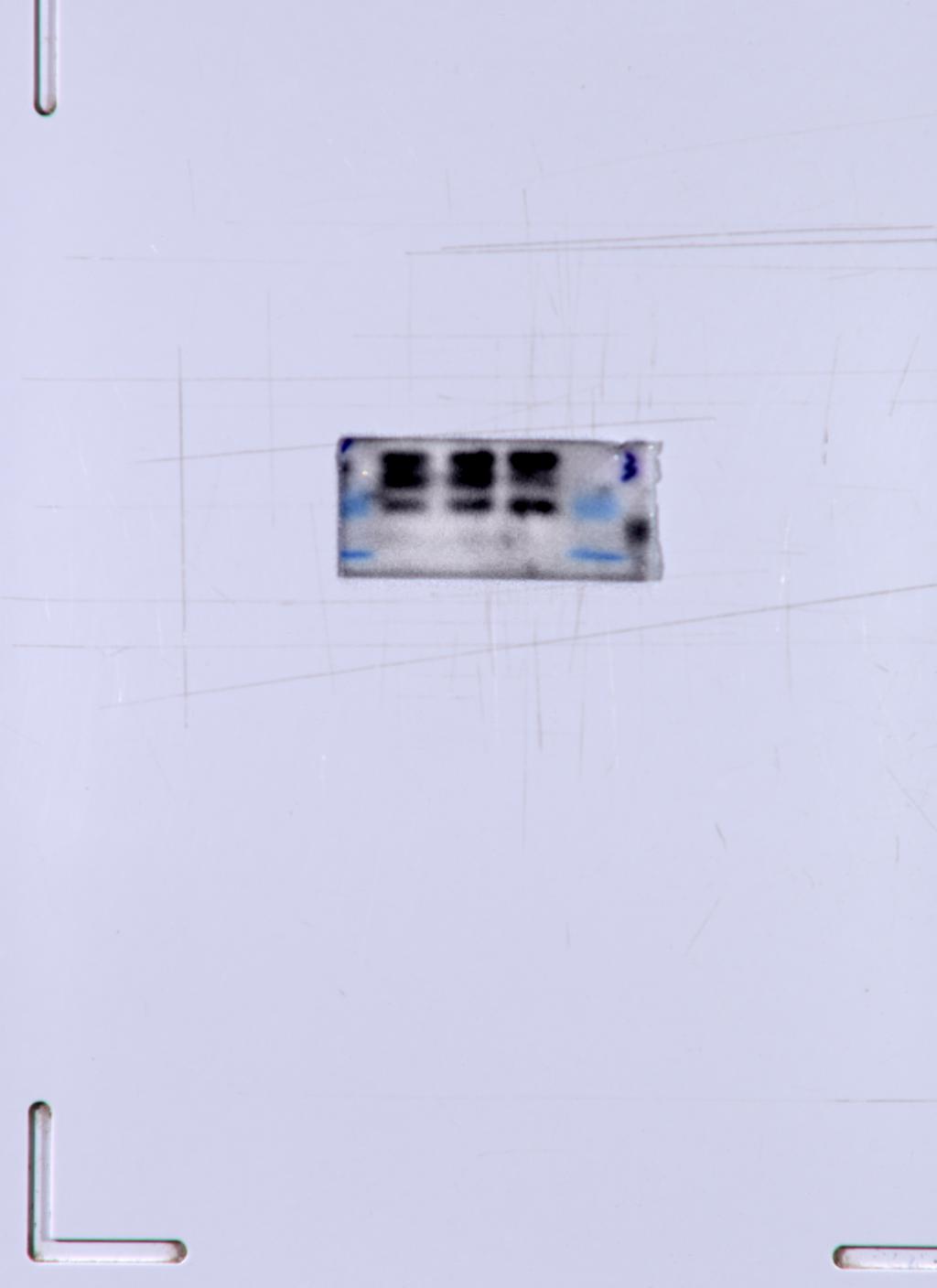
|  |  |  |  |
| --- | --- | --- | --- |
| Gray scale | 2.573 | 2.626 | 2.574 |

**Fig. 6F~p62**



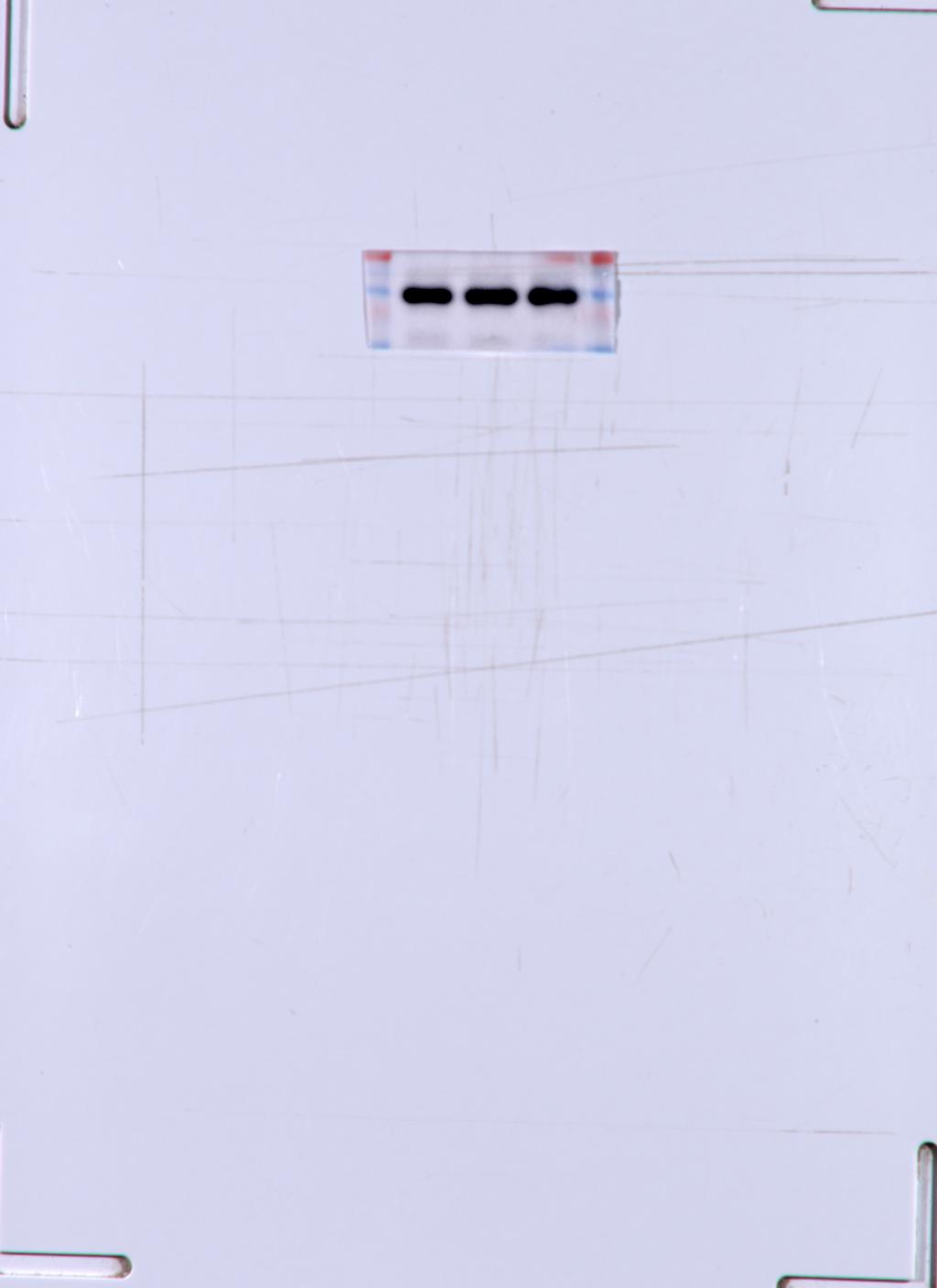
|  |  |  |  |
| --- | --- | --- | --- |
| Gray scale | 4.181 | 3.599 | 1.677 |

**Fig. 6F~LC3**



|  |  |  |  |
| --- | --- | --- | --- |
| Gray scale | 0.803 | 1.031 | 1.632 |

**Fig. 6F~β-tubulin**



|  |  |  |  |
| --- | --- | --- | --- |
| Gray scale | 2.638 | 2.642 | 2.633 |

**Fig. S2A~Flag**

p3×Flag-CMV

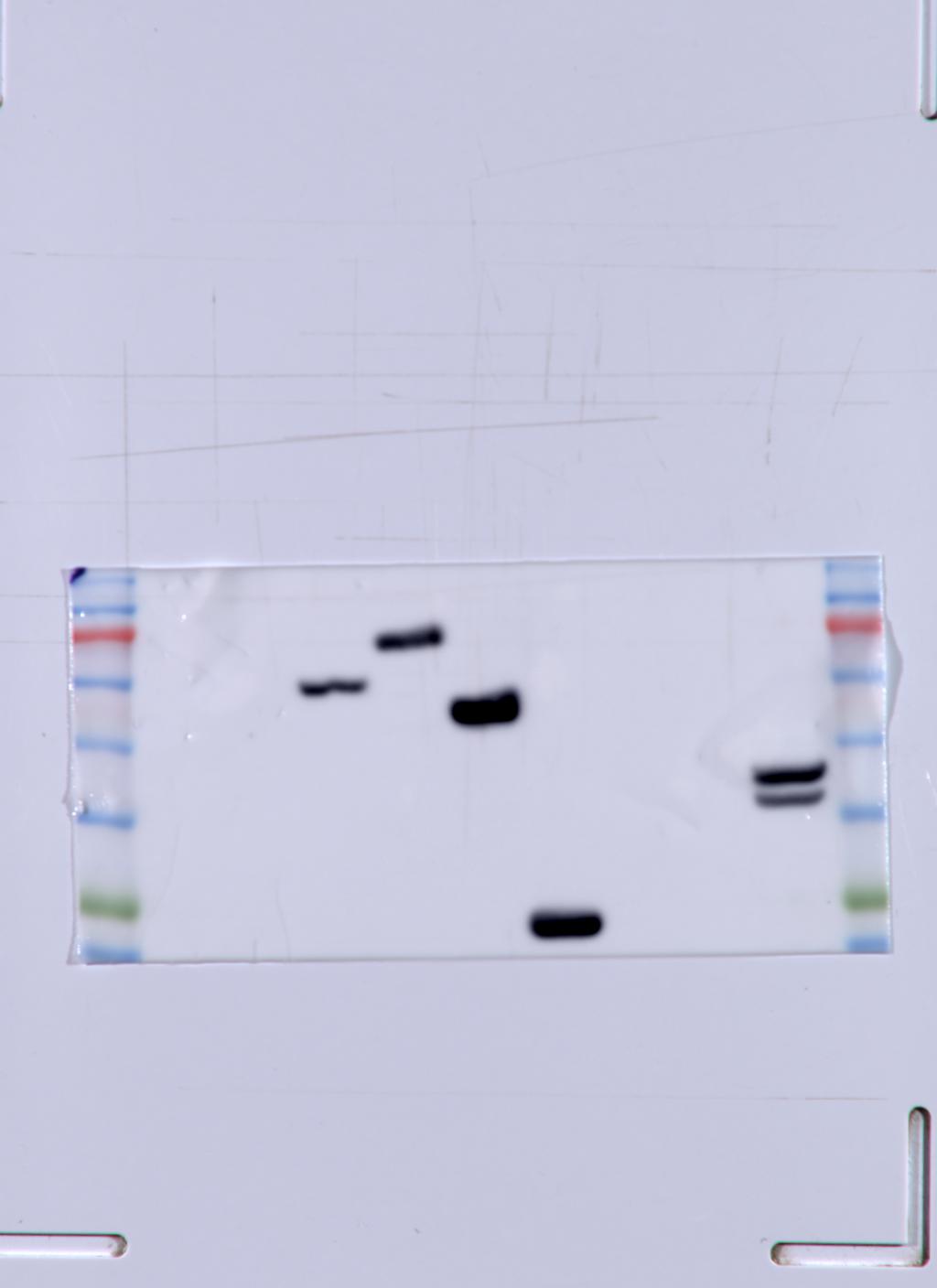
mock

p3×Flag-CMV-C

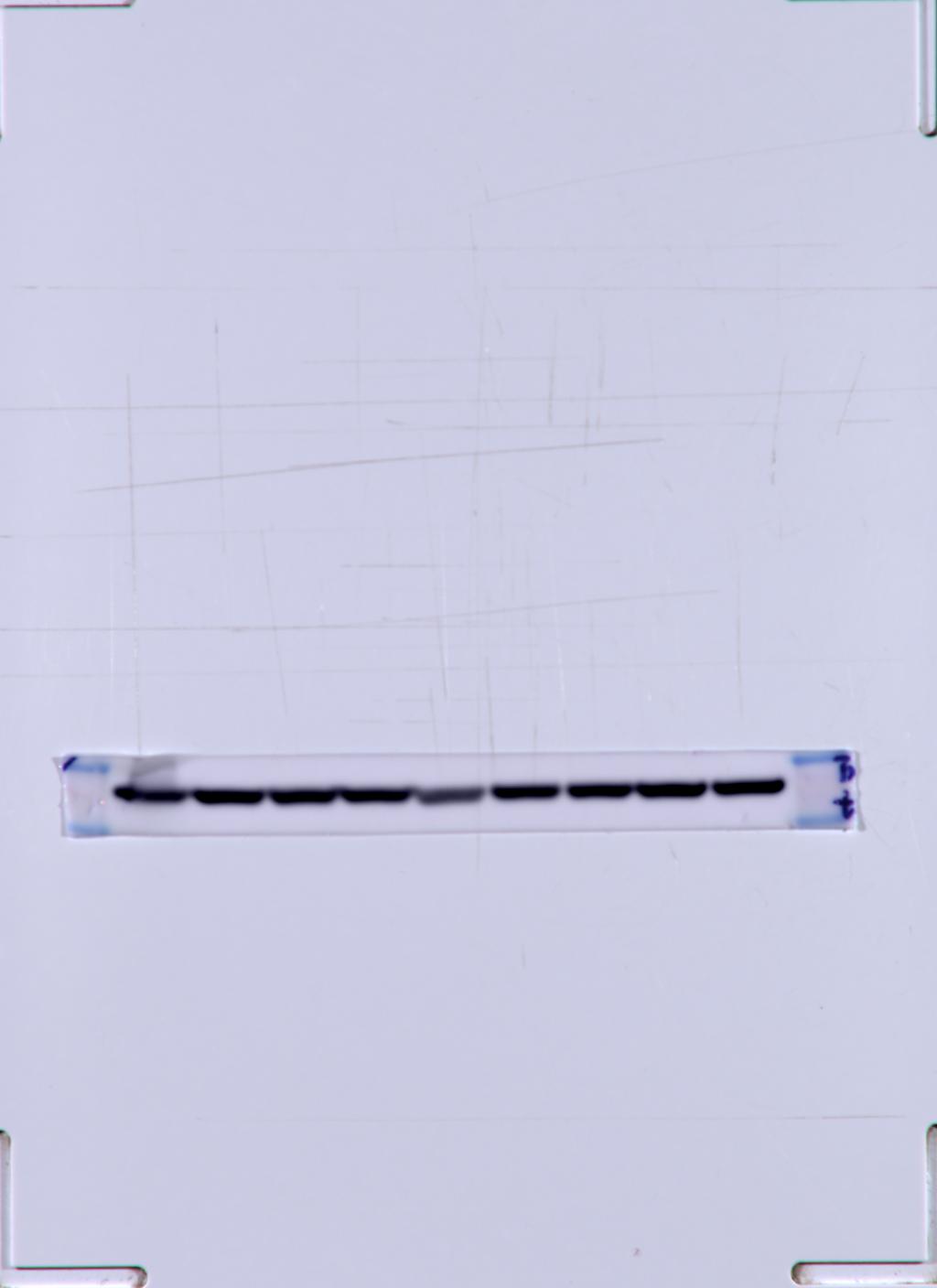
p3×Flag-CMV-V

p3×Flag-CMV-P

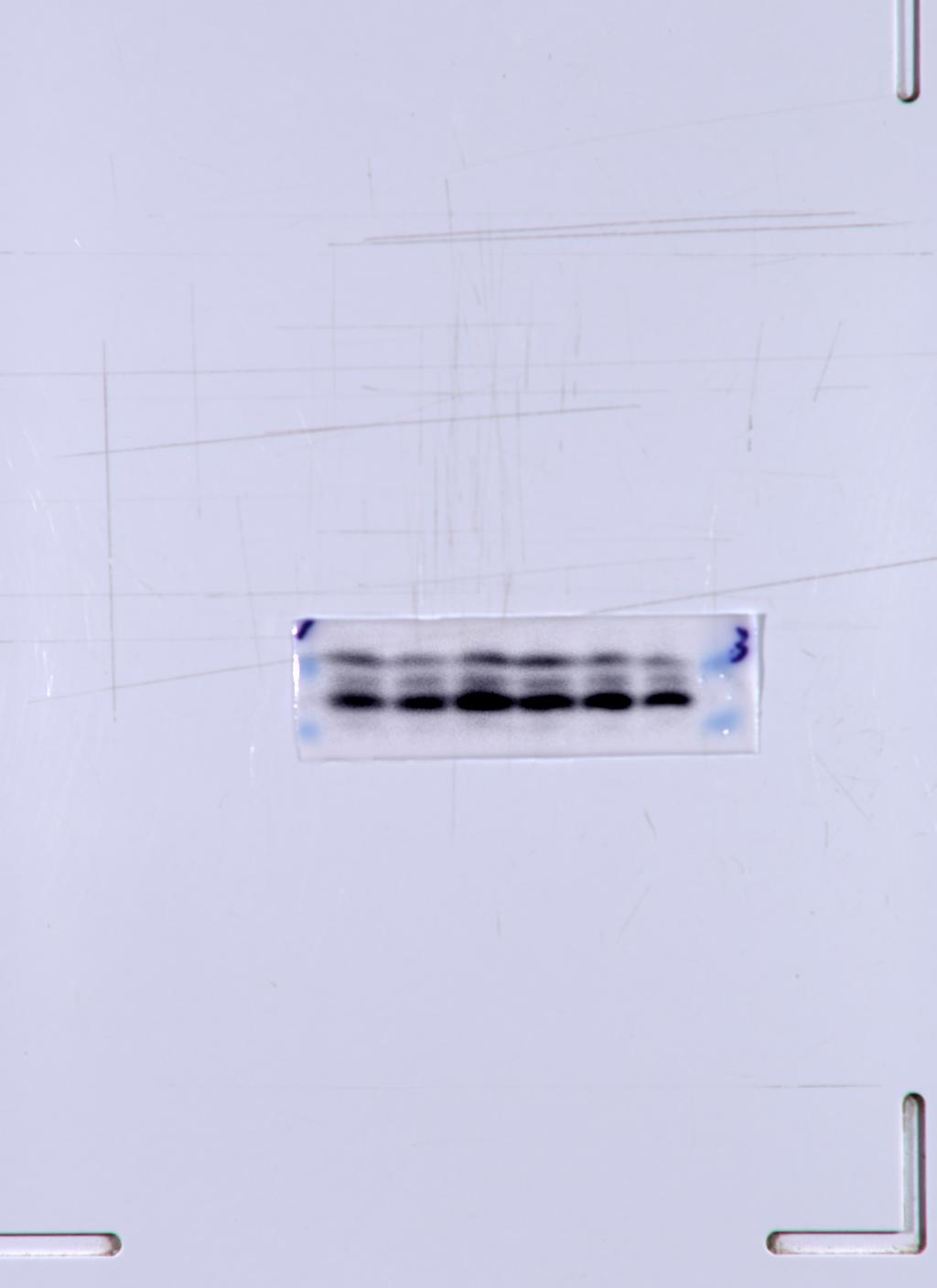
p3×Flag-CMV-N



**Fig. S2A~β-tubulin**



**Fig. S2B~LC3**



**Fig. S2B~β-tubulin**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| hpi | mock | Flag | -N | -  P | -  V | -C |

