**Table S3. The list of antibodies used in this study.**

| Antibodies                        | WB Dilute concentration | PLA Dilute concentration | Catalog number | Source         |
|-----------------------------------|-------------------------|--------------------------|----------------|----------------|
| Rabbit polyclonal anti-HLTF       | 1:2000                  | 1:100                    | A300-230A      | Bethyl         |
| Mouse monoclonal anti-PARP1       | 1:500                   | 1:50                     | 556494         | BD Biosciences |
| Mouse monoclonal anti-BARD1       | 1:50                    | 1:10                      | ab50984        | Abcam          |
| Rabbit polyclonal anti-BARD1      | 1:2000                  | 1:100                    | A300-263A      | Bethyl         |
| Mouse monoclonal anti-BARD1       | 1:1000                  | 1:50                     | SC-74559       | Santa cruz     |
| Rabbit polyclonal anti-UBC13      | 1:1000                  | 1:200                    | ab25885        | Abcam          |
| Mouse monoclonal anti-BRCA1       | 1:2000                  | 1:200                    | ab16780        | Abcam          |
| Rabbit polyclonal anti-RAD51      | -                       | 1:100                    | ab63801        | Abcam          |
| Mouse monoclonal anti-PCNA        | -                       | 1:100                    | CBL407         | Millipore      |
| Mouse monoclonal anti-γH2AX       | 1:5000                  | -                        | 05-636         | Millipore      |
| Rabbit polyclonal anti-H2AX       | 1:5000                  | -                        | 07-627         | Millipore      |
| Rabbit monoclonal anti-beta-tubulin| 1:5000                 | -                        | ab205790       | Abcam          |
| Mouse monoclonal anti-biotin      | -                       | 1:2000                   | 200-002-211    | Jackson ImmunoResearch |
| Rabbit polyclonal anti-biotin     | -                       | 1:3000                   | A150-109A      | Bethyl         |
| Mouse monoclonal anti-EB1         | -                       | 1:100                    | 610534         | BD Biosciences |
| Mouse monoclonal anti-FLAG        | 1:15000                 | -                        | F3165          | Sigma-Aldrich  |
| Rabbit polyclonal anti-GFP        | 1:2000                  | -                        | ab290          | Abcam          |
| Mouse monoclonal anti-turboGFP    | 1:2000                  | -                        | TA150041       | Origene        |
| Mouse monoclonal anti-alpha tubulin| 1:5000                 | -                        | GTX628802-01   | Genetex        |
| Rabbit polyclonal anti-53BP1      | 1:1000                  | 1:100                    | A5757          | ABclonal       |