## Appendix 1. Antibodies and conditions of western blot

| Antibody Name | Type | Primary Concentration | Solution | Incubation | MW (kDa) | Secondary | Secondary Concentration | Company | Reference |
|---------------|------|-----------------------|----------|------------|----------|-----------|--------------------------|---------|-----------|
| AKT           | Rabbit | 1:1000                | 5% BSA   | ON         | 60       | Goat anti Rb | 1:5000          | CST     | #4691     |
| p-AKT (Ser 473) | Rabbit | 1:1000                | 5% BSA   | ON         | 60       | Goat anti Rb | 1:5000          | CST     | #4060     |
| ALDH2         | Rabbit | 1:100-1:500           | 5% Skim Milk | ON     | 56       | Goat anti Rb | 1:5000          | Abcam   | Ab70917   |
| β-Actin       | Rabbit | 1:5000                | 5% BSA   | 45 min     | 45       | Conjugated | CST             |         | #4970     |
| β-Actin       | Mouse  | 1:5000                | 5% BSA   | 45 min     | 45       | Conjugated | CST             |         | #12262    |
| BMI1          | Rabbit | 1:1000                | 5% BSA   | ON         | 41-43    | Goat anti Rb | 1:5000          | CST     | #5856     |
| DJ1           | Rabbit | 1:1000                | 5% BSA   | ON         | 22       | Goat anti Rb | 1:5000          | CST     | #5933     |
| DRP1          | Rabbit | 1:1000                | 5% BSA   | ON         | 78-82    | Goat anti Rb | 1:5000          | CST     | #8570     |
| Mitofusin 1   | Mouse  | 1:1000                | 5% BSA   | ON         | 84       | Goat anti Ms | 1:5000          | Abcam   | ab 57602  |
| Mitofusin 2   | Rabbit | 1:1000                | 5% BSA   | ON         | 80       | Goat anti Rb | 1:5000          | CST     | #9482     |
| OPA1          | Rabbit | 1:1000                | 5% BSA   | ON         | 86-111   | Goat anti Rb | 1:5000          | Novusbio | NB110-55290 |
| Parkin        | Mouse  | 1:1000                | 5% BSA   | ON         | 50       | Goat anti Ms | 1:5000          | CST     | #4211     |
| PINK1         | Rabbit | 1:1000                | 5% BSA   | ON         | 50-60    | Goat anti Rb | 1:5000          | CST     | #6949     |
| PTEN          | Rabbit | 1:1000                | 5% BSA   | ON         | 54       | Goat anti Rb | 1:5000          | CST     | #9188     |

ON: Over Night. CST: Cell Signaling Technologies