**Supplementary Table 2. Relevant antibody information**

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| Name | Product number | Company |
| FXR antibody | AV33672 | Sigma |
| CYP7A1 antibody | ab65596 | Abcam |
| FGF15 antibody | ab229630 | Abcam |
| ZO-1 antibody | ab216880 | Abcam |
| Occludin antibody | ab216327 | Abcam |
| GAPDH antibody | 5174s | Cell Signaling Technology |
| HRP-labeled Goat Anti-Mouse IgG | A0216 | Beyotime |
| HRP-labeled Goat Anti-Rabbit IgG | A0208 | Beyotime |

FXR, farnesol X receptors; CYP7A1, cytochrome P450 family 7 subfamily A member-1; FGF15, fibroblast growth factor 15; ZO-1, tight junction protein-1.