

Supplementary Information For

**The Comparative Effects of ω -7 Fatty Acid-rich Sea Buckthorn Oil and ω -3 Fatty
Acid-rich DHA Algal Oil on Improving High-fat Diet-induced Hyperlipidemia**

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1. Supplementary Tables

Table S1 The primer sequences used for RT-qPCR

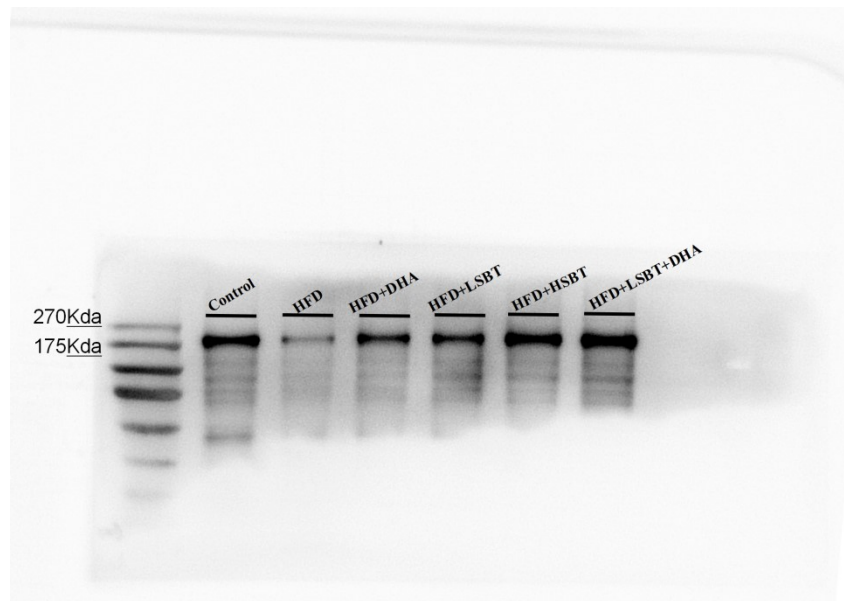
Gene name	Forward Primer	Reverse Primer
<i>IL-6</i>	<i>GACTTCCAGCCAGTTGCCTTCTTG</i>	<i>TGGTCTGTTGTGGGTGGTATCCTC</i>
<i>TNF-α</i>	<i>AAATGGGCTCCCTCTCATCAGTTC</i>	<i>TCCGCTTGGTGGTTTGCTACGAC</i>
<i>IL-1β</i>	<i>ACTCATTGTGGCTGTGGAGA</i>	<i>TTGTTCATCTCGGAGCCTGT</i>
<i>PPARγ</i>	<i>GCTGTGCAGGAGATCACAGA</i>	<i>GGGCTCCATAAAGTCACCAA</i>

Table S2 Target protein, manufacturer, article number, working condition, and source of primary antibodies used for the Western blot analyses.

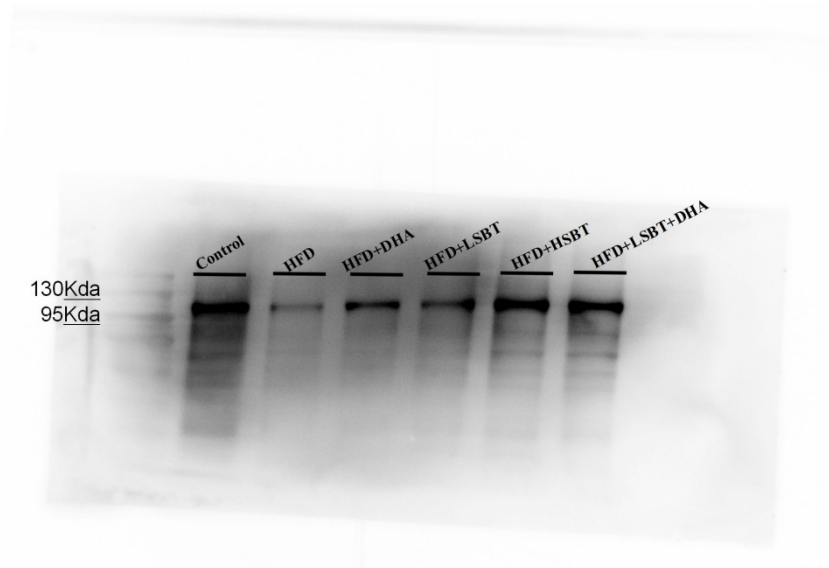
Target protein	Manufacturer	Article number	Working condition	Source
PPAR γ	Beyotime	AF7797	1:1000	Rabbit
LXR- α	Thermo fisher	PA1-330	1:1000	Rabbit
ABCA1	Beyotime	AF6114	1:1000	Rabbit
ABCG1	Beyotime	AF1588	1:1000	Rabbit
GAPDH	Beyotime	AF1186	1:5000	Rabbit
Anti-Rabbit IgG (H+L) Antibody, Peroxidase-Labeled	KPL	074-1506	1:5000	
Anti-Mouse IgA + IgG + IgM (H+L) Antibody, Human Serum Adsorbed and Peroxidase-Labeled	KPL	074-1807	1:5000	

2. The raw images of western blot

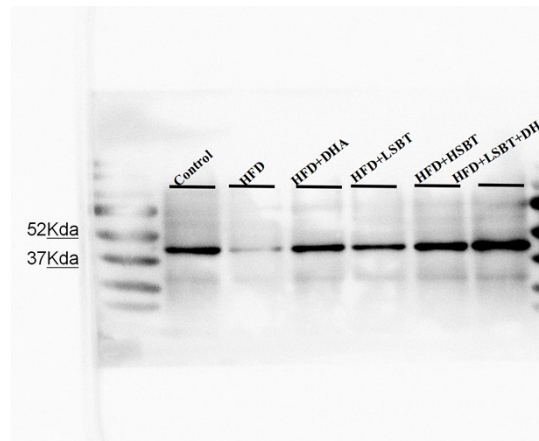
2.1 Representative protein blots of liver ABCA1



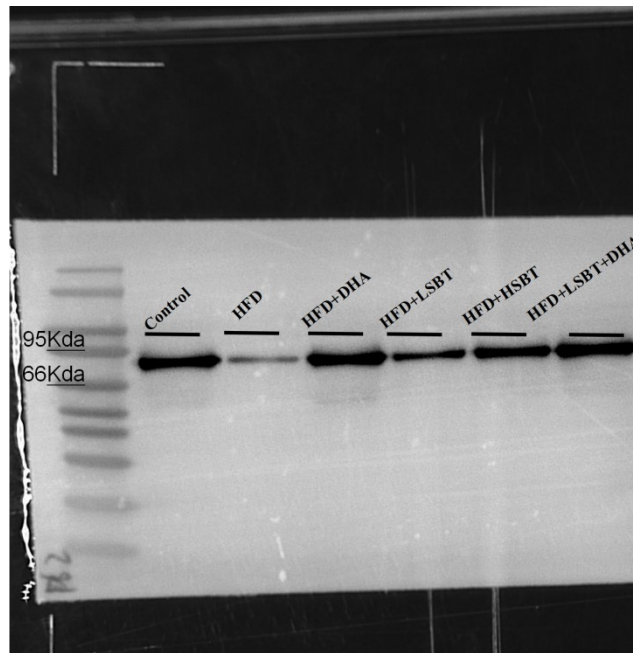
3.2 Representative protein blots of liver ABCG1



3.3 Representative protein blots of liver LXR- α



3.4 Representative protein blots of liver PPAR γ



3.5 Representative protein blots of liver GAPDH

