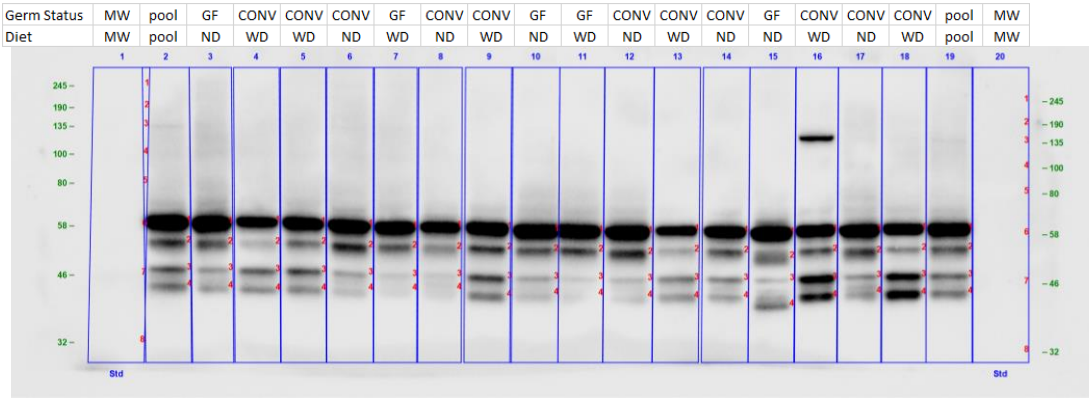
Source Data to "Western diet-associated gut microbiota and adipocyte mitochondrial damage in diabetes are linked by Mmp12-expressing macrophages“ by Zhipeng Li, Andrey Morgun, Natalia Shulzhenko, et al, 2022

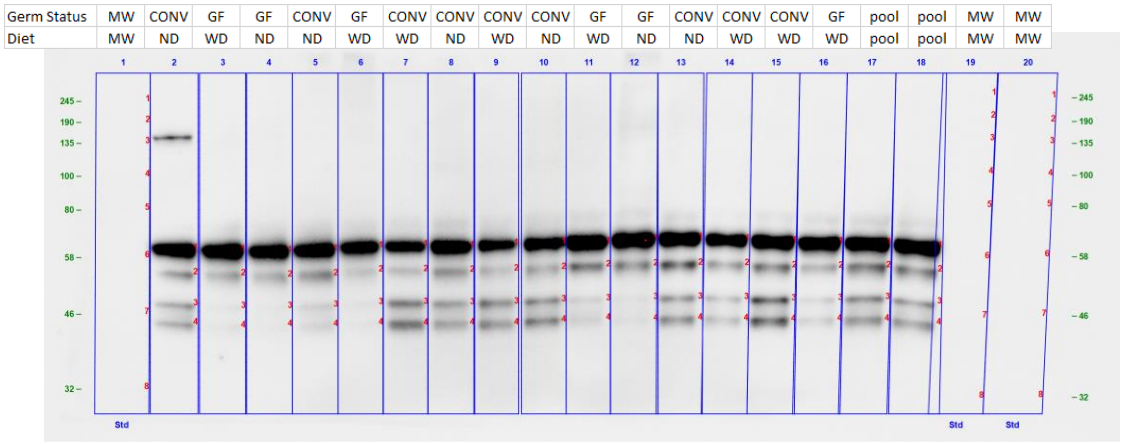
Primary Antibodies:
Akt (pan) (C67E7) Rabbit mAb (Cell Signaling cat# #4691)
PTEN (D4.3) XP Rabbit mAb (Cell Signaling cat# 9188S)
Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (D13.14.4E) XP Rabbit mAb (Cell Signaling cat# 4370)



AKT (60.5 kDa)
PTEN (54.1 kDa)
phos-Erk1/2 (44.8, 48.2 kDa)

Western blot A of adipose tissue.
MW = molecular weight ladder (kDa); pool = pool of all adipose tissue samples; CONF = conventionalized; GF = germ-free; ND = normal diet; WD = western diet.
The bottom section of the membrane was cut off and probed solely for cofilin (intended to be a loading control; Cell Signaling cat# 5175S).

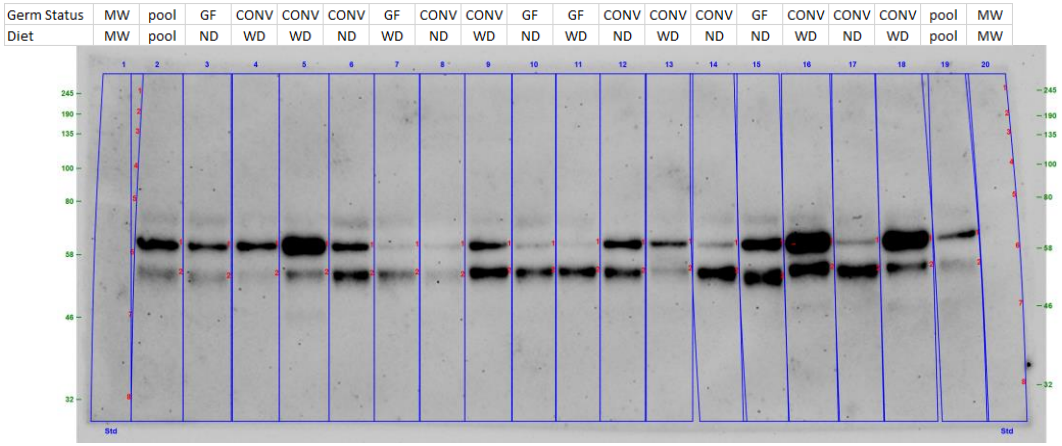
Primary Antibodies:
Akt (pan) (C67E7) Rabbit mAb (Cell Signaling cat# #4691)
PTEN (D4.3) XP Rabbit mAb (Cell Signaling cat# 9188S)
Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (D13.14.4E) XP Rabbit mAb (Cell Signaling cat# 4370)



AKT (60.5 kDa)
PTEN (54.1 kDa)
phos-Erk1/2 (44.8, 48.2 kDa)

Western blot B of adipose tissue.
MW = molecular weight ladder (kDa); pool = pool of all adipose tissue samples; CONF = conventionalized; GF = germ-free; ND = normal diet; WD = western diet.
The bottom section of the membrane was cut off and probed solely for cofilin (intended to be a loading control; Cell Signaling cat# 5175S).

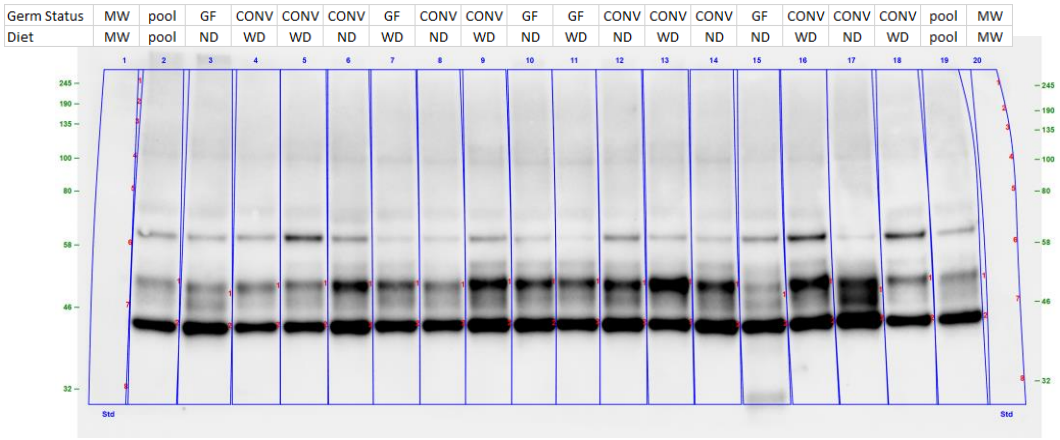
Primary Antibodies:
Phospho-Akt (Ser473) (D9E) XP Rabbit mAb (Cell Signaling cat# 4060)
Phospho-PTEN (Ser380/Thr382/383) Rabbit pAb (Cell Signaling cat# 9554)



phos-AKT (61.4 kDa)
phos-PTEN (54.1 kDa)

Western blot O of adipose tissue.
MW = molecular weight ladder (kDa); pool = pool of all adipose tissue samples; CONF = conventionalized; GF = germ-free; ND = normal diet; WD = western diet.
The bottom section of the membrane was cut off and probed solely for cofilin (intended to be a loading control; Cell Signaling cat# 5175S).

Primary Antibodies:
GSK-3β (D5C5Z) XP Rabbit mAb (Cell Signaling cat# 12456)
p38 MAPK (D13E1) XP Rabbit mAb (Cell Signaling cat# 8690S)

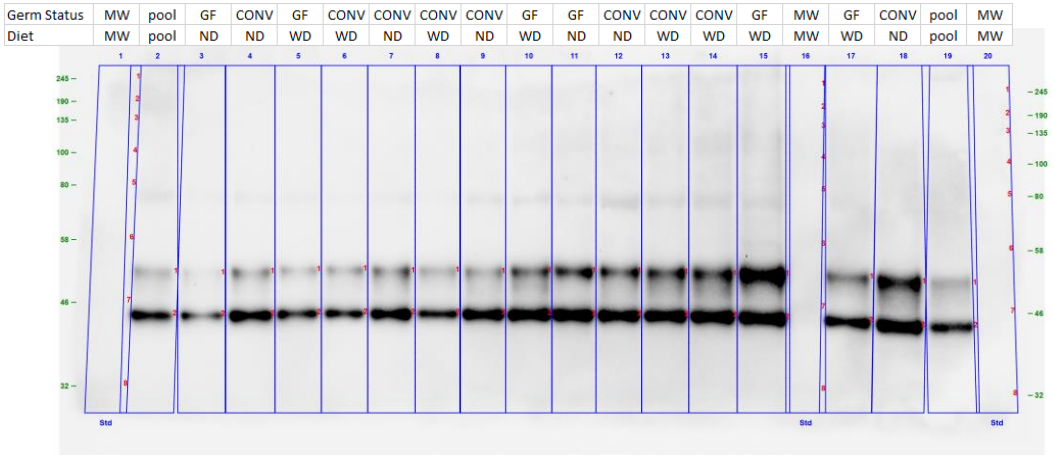


carryover: phos-AKT (61.4 kDa)
carryover: phos-PTEN (54.1 kDa)

GSK3B (50.5 kDa)
p38 (43.7 kDa)

Western blot V of adipose tissue.
MW = molecular weight ladder (kDa); pool = pool of all adipose tissue samples; CONF = conventionalized; GF = germ-free; ND = normal diet; WD = western diet.
The bottom section of the membrane was cut off and probed solely for cofilin (intended to be a loading control; Cell Signaling cat# 5175S).
This western blot was subsequent to western blot O, and it used the same membrane (it was not stripped first).

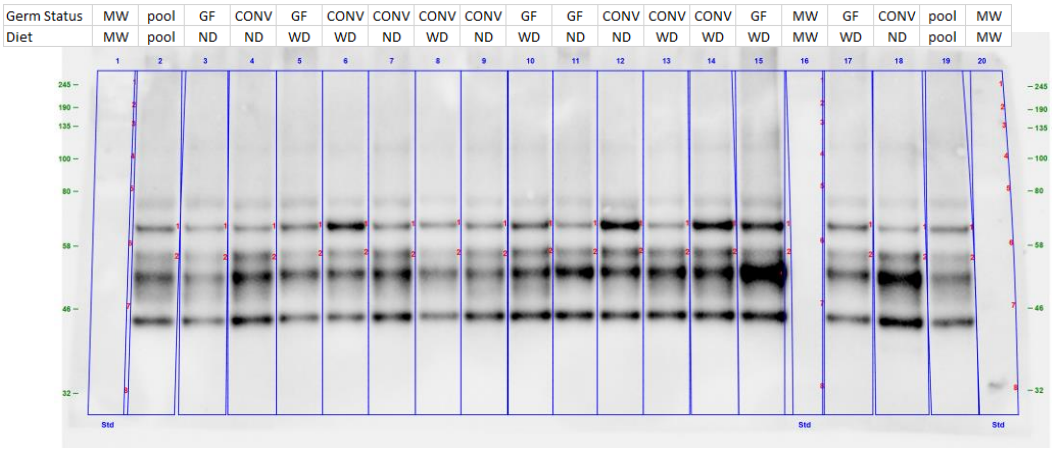
Primary Antibodies:
GSK-3β (D5C5Z) XP Rabbit mAb (Cell Signaling cat# 12456)
p38 MAPK (D13E1) XP Rabbit mAb (Cell Signaling cat# 8690S)



GSK3B (50.5 kDa)
p38 (43.7 kDa)

Western blot P of adipose tissue.
MW = molecular weight ladder (kDa); pool = pool of all adipose tissue samples; CONF = conventionalized; GF = germ-free; ND = normal diet; WD = western diet.
The bottom section of the membrane was cut off and probed solely for cofilin (intended to be a loading control; Cell Signaling cat# 5175S).

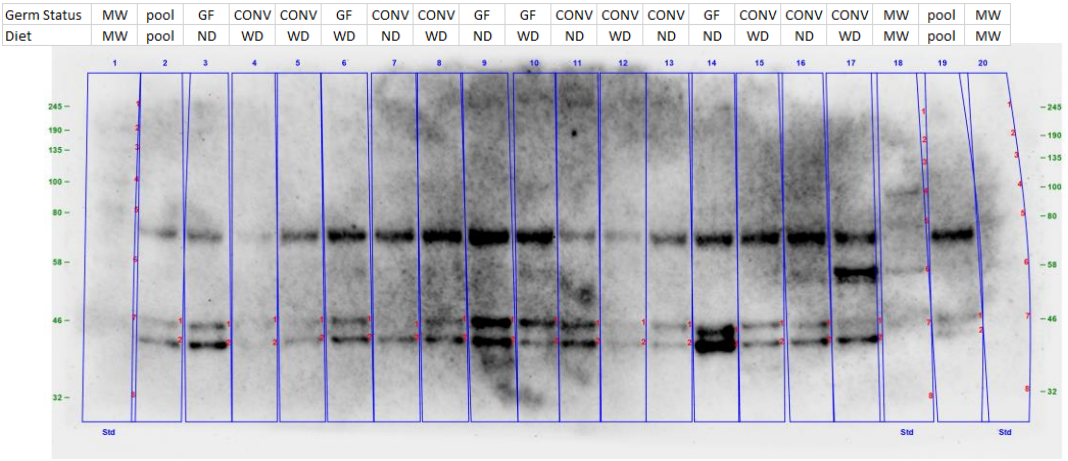
Primary Antibodies:
Phospho-Akt (Ser473) (D9E) XP Rabbit mAb (Cell Signaling cat# 4060)
Phospho-PTEN (Ser380/Thr382/383) Rabbit pAb (Cell Signaling cat# 9554)



phos-AKT (61.4 kDa)
phos-PTEN (54.1 kDa)
carryover: GSK3B (50.5 kDa)
carryover: p38 (43.7 kDa)

Western blot W of adipose tissue.
MW = molecular weight ladder (kDa); pool = pool of all adipose tissue samples; CONF = conventionalized; GF = germ-free; ND = normal diet; WD = western diet.
The bottom section of the membrane was cut off and probed solely for cofilin (intended to be a loading control; Cell Signaling cat# 5175S).
This western blot was subsequent to western blot P, and it used the same membrane (it was not stripped first).

Primary Antibodies:
Phospho-p38 MAPK (Thr180/Tyr182) (D3F9) XP Rabbit mAb (Cell Signaling cat# 4511)

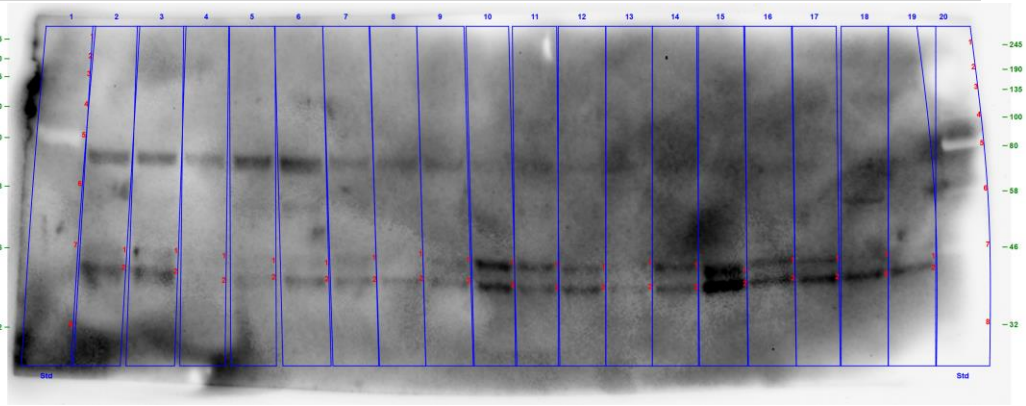


phos-p38 (two bands at ~43.8 kDa)

Western blot L of adipose tissue.
MW = molecular weight ladder (kDa); pool = pool of all adipose tissue samples; CONF = conventionalized; GF = germ-free; ND = normal diet; WD = western diet.
The bottom section of the membrane was cut off and probed solely for cofilin (intended to be a loading control; Cell Signaling cat# 5175S).

Primary Antibodies:
Phospho-p38 MAPK (Thr180/Tyr182) (D3F9) XP Rabbit mAb (Cell Signaling cat# 4511)

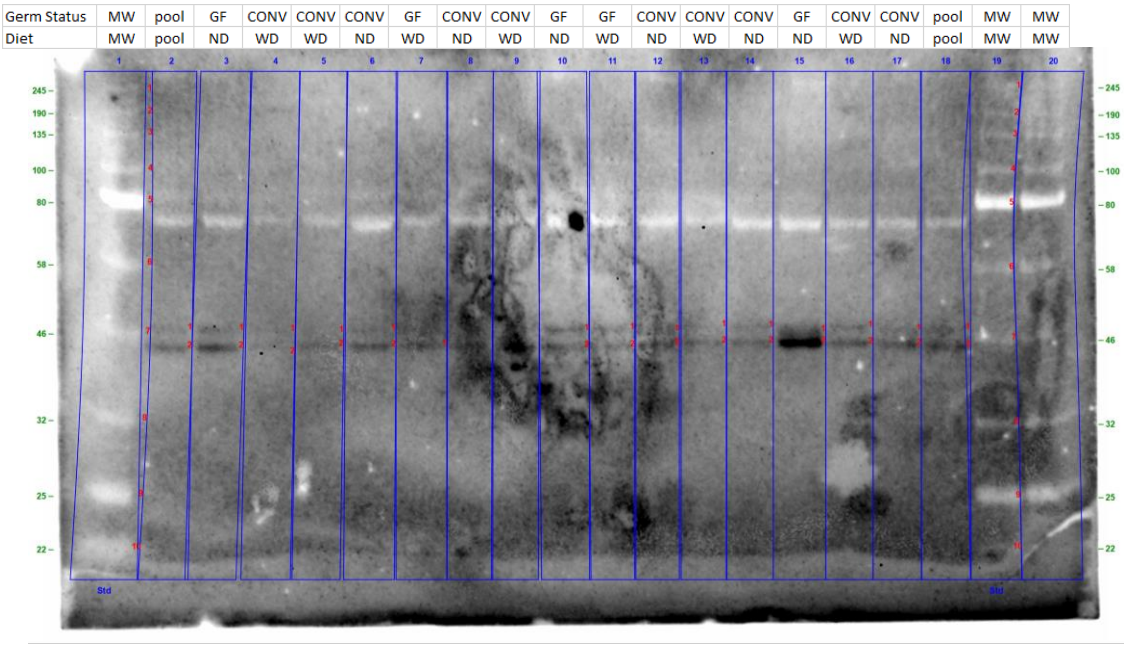
Germ Status	MW	pool	GF	CONV	CONV	GF	CONV	CONV	GF	GF	CONV	CONV	CONV	GF	CONV	CONV	CONV	pool	pool	MW
Diet	MW	pool	ND	WD	WD	WD	ND	WD	ND	WD	ND	WD	ND	ND	WD	ND	WD	pool	pool	MW



phos-p38 (two bands at ~43.8 kDa)

Western blot L2 of adipose tissue.
MW = molecular weight ladder (kDa); pool = pool of all adipose tissue samples; CONF = conventionalized; GF = germ-free; ND = normal diet; WD = western diet.
The bottom section of the membrane was cut off and probed solely for cofilin (intended to be a loading control; Cell Signaling cat# 5175S).
Western blot L2 had the same sample layout as Western blot L except for lane 18.

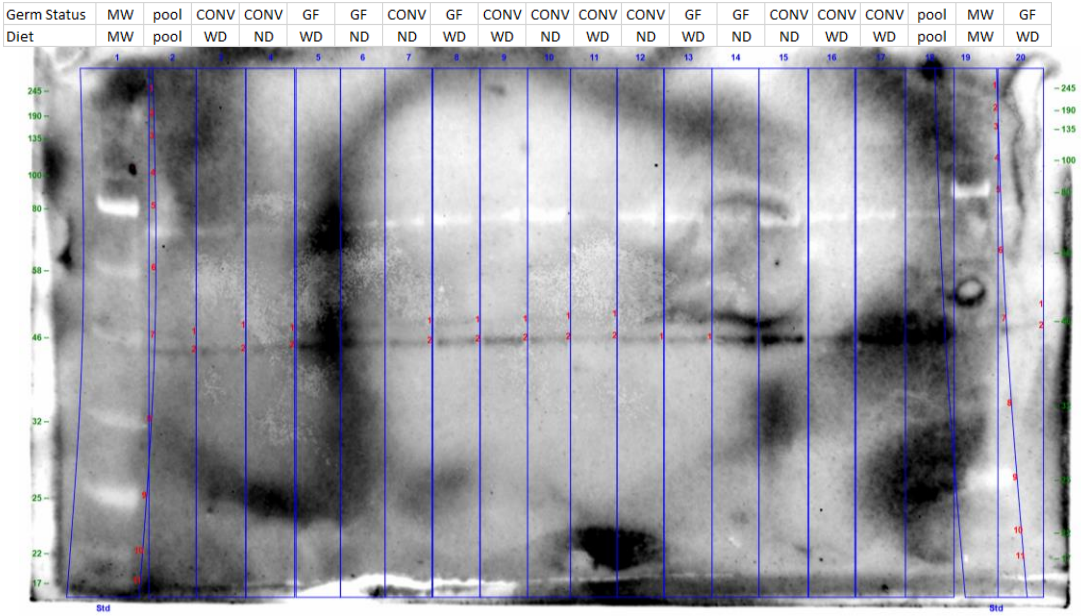
Primary Antibodies:
Phospho-p38 MAPK (Thr180/Tyr182) (D3F9) XP Rabbit mAb (Cell Signaling cat# 4511)



phos-p38 (two bands at ~43.8 kDa)

Western blot X3 of adipose tissue.
MW = molecular weight ladder (kDa); pool = pool of all adipose tissue samples; CONF = conventionalized; GF = germ-free; ND = normal diet; WD = western diet.

Primary Antibodies:
Phospho-p38 MAPK (Thr180/Tyr182) (D3F9) XP Rabbit mAb (Cell Signaling cat# 4511)



phos-p38 (two bands at ~43.8 kDa)

Western blot Y3 of adipose tissue.
MW = molecular weight ladder (kDa); pool = pool of all adipose tissue samples; CONF = conventionalized; GF = germ-free; ND = normal diet; WD = western diet.