図6

Effect of DAG on Serum Lipid Levels in Rats
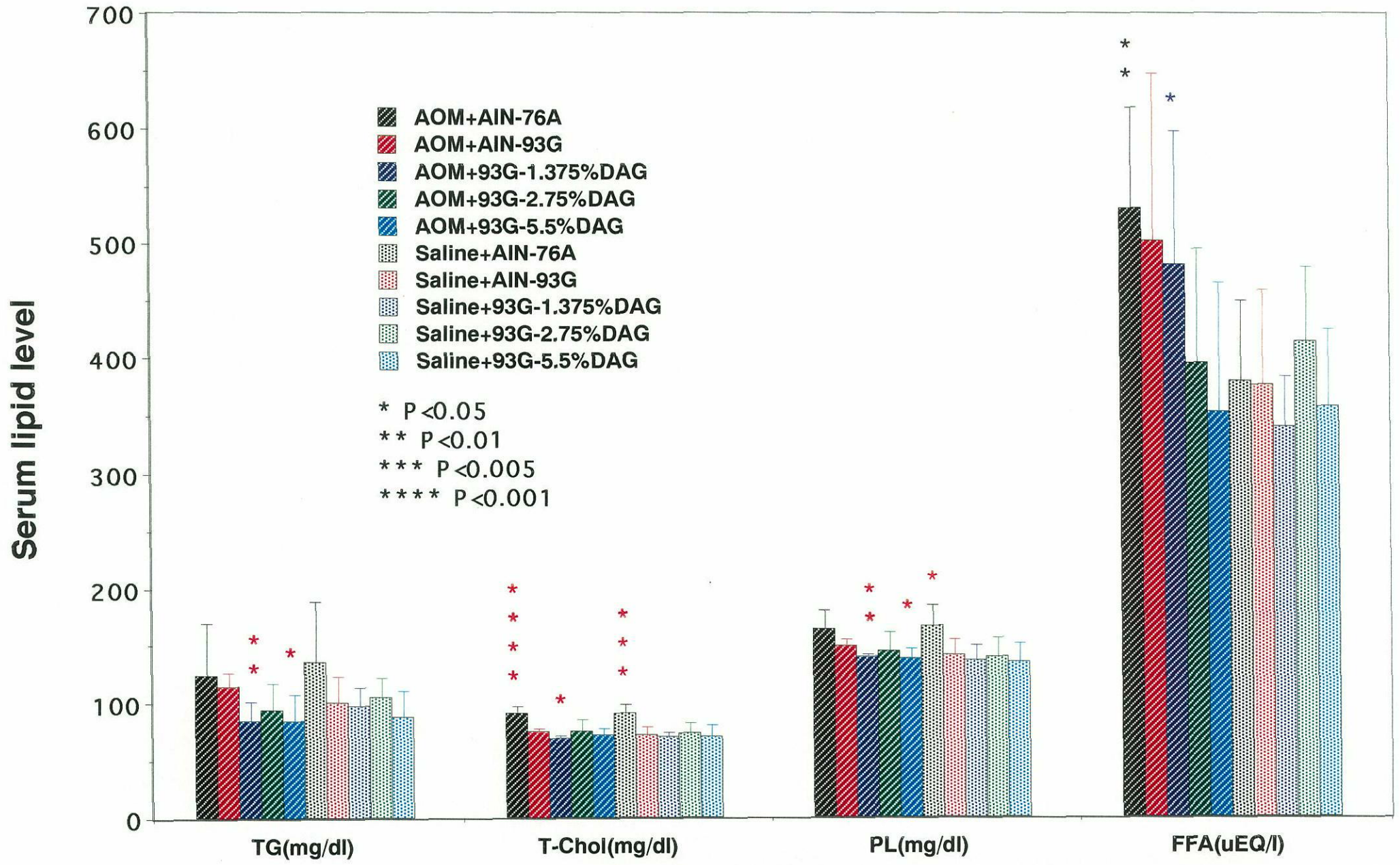
表2

Effect of DAG on Serum Lipid Levels in Rat Colon

Treatment	No. of samples	Triglyceride (mg/dl)	Total cholesterol (mg/dl)	Phospholipids (mg/dl)	Free fatty acids (μEQ/l)
AOM + AIN-76A	6	123.7± 45.8 (107%)	90.3 ± 7.2 (126%)****	163.0 ± 16.8 (109%)	530.8 ± 87.1 (106%)
AOM + AIN-93G	6	115.2 ± 11.7 (100%)	75.2 ± 3.7 (100%)	149.5 ± 6.5 (100%)	501.8 ± 146.3 (100%)
AOM + AIN-93G-1.375%DAG	6	84.8 ± 16.6 (74%)**	69.8 ± 2.2 (93%)*	139.2 ± 4.1(93%)**	481.2 ± 117.2(96%)
AOM + AIN-93G-2.75%DAG	6	93.7 ± 23.4 (81%)	76.0 ± 9.9 (101%)	144.0 ± 17.1(96%)	394.8 ± 101.0(79%)
AOM + AIN-93G-5.5%DAG	6	84.3 ± 23.4 (73%)*	71.8 ± 6.5 (95%)	138.2 ± 8.9 (92%)*	352.7 ± 113.5 (70%)
Saline + AIN-76A	6	134.8 ± 53.6 (133%)	91.2 ± 6.9 (125%)***	166.7 ± 18.2 (117%)*	379.5 ± 71.5 (101%)
Saline + AIN-93G	6	101.2 ± 22.6 (100%)	72.7 ± 7.1 (100%)	142.0 ± 13.0 (100%)	377.3 ± 82.5 (100%)
Saline + AIN-93G-1.375%DAG	6	97.5 ± 16.6 (96%)	70.0 ± 6.0 (96%)	137.0 ± 13.2 (96%)	341.3 ± 42.5 (90%)
Saline + AIN-93G-2.75%DAG	6	105.0 ± 17.9 (104%)	73.8 ± 9.0 (101%)	139.8 ± 16.8 (98%)	414.7± 66.3 (110%)
Saline + AIN-93G-5.5%DAG	6	87.5 ± 23.4 (86%)	70.8 ± 10.1(97%)	134.3 ± 18.7 (95%)	357.8 ± 67.5 (99%)

Average ± SD   *, **, ***, ****: P<0.05, P<0.001, P<0.005, P<0.001.
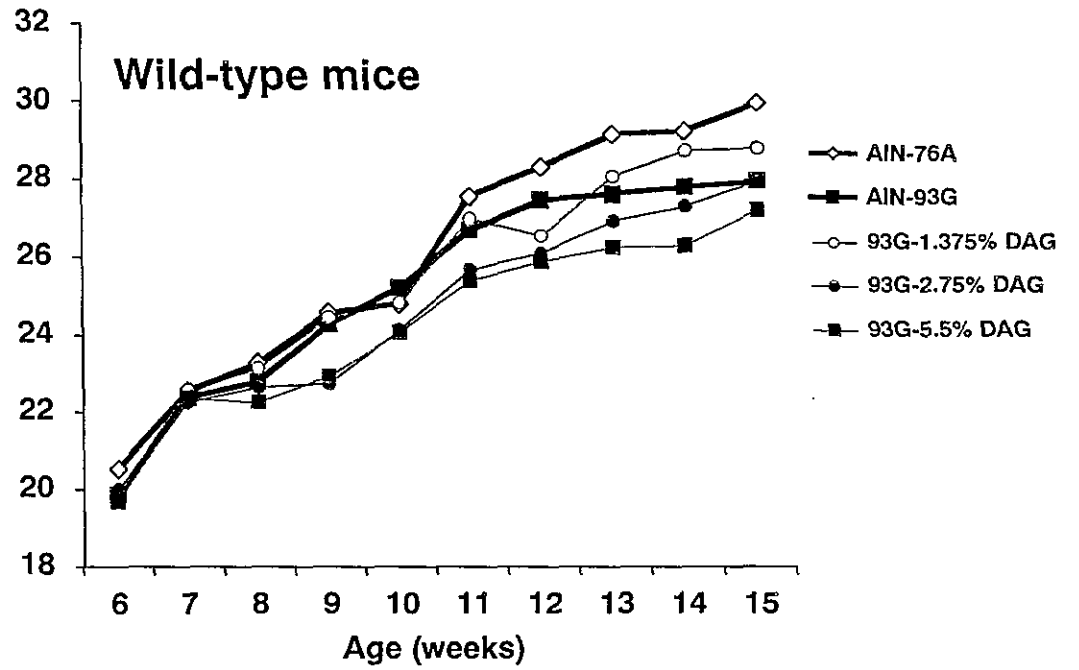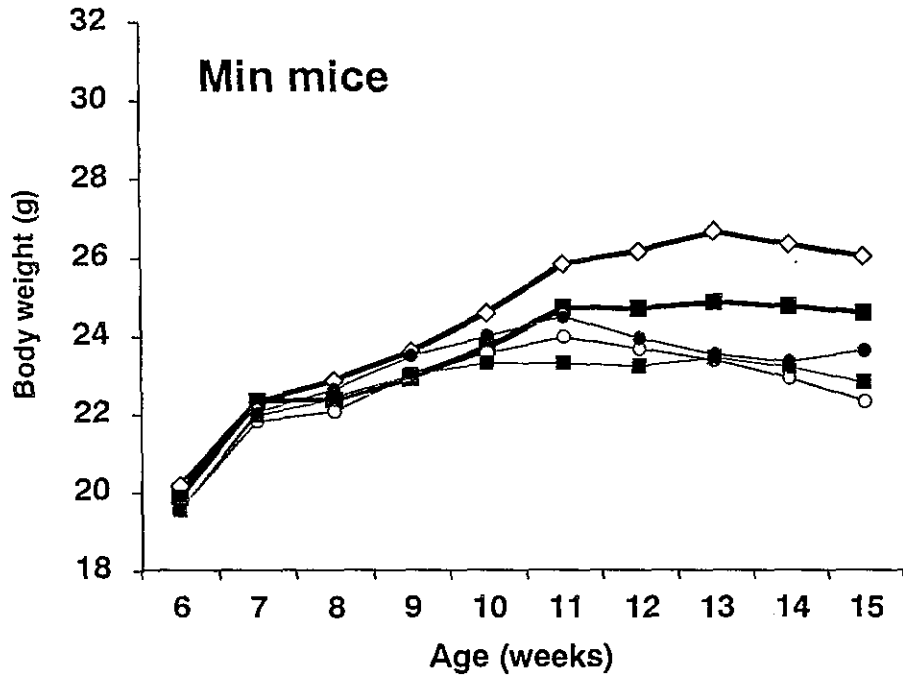
図7

Body Weight Change

Min mice / Wild-type mice — Body weight (g) vs Age (weeks)

Legend:
- AIN-76A
- AIN-93G
- 93G-1.375% DAG
- 93G-2.75% DAG
- 93G-5.5% DAG

表 3　　　　　　Effect of DAG on Intestinal Polyp Development in Min Mice

| Treatment | No. of mice | No. of polyps/mouse | | | Colon | Total |
| | | Small intestine | | | | |
		Proximal	Middle	Distal		
AIN-76A	9	9.4 ± 1.4[a]	24.0 ± 4.4	50.0 ± 8.9	1.3 ± 0.3	84.8 ± 13.8
AIN-93G	9	9.9 ± 1.1	27.1 ± 4.3	47.0 ± 6.5	0.9 ± 0.4	84.9 ± 10.7 (100%)
93G-1.375% DAG	9	11.2 ± 2.0	33.3 ± 5.3	52.2 ± 7.0	1.0 ± 0.2	97.8 ± 14.0 (115%)
93G-2.75% DAG	8	13.4 ± 2.0	26.3 ± 3.5	51.8 ± 7.7	0.9 ± 0.4	92.3 ± 10.0 (108%)
93G-5.5% DAG	9	12.2 ± 3.5	28.2 ± 8.5	54.6 ± 11.5	1.0 ± 0.3	96.0 ± 22.8 (113%)

[a] Mean ± SE.

図8

Effect of DAG on Intestinal Polyp Development in Min Mice

No. of polyps / mouse (y-axis: 0, 20, 40, 60, 80, 100, 120, 140)

Legend:
- ■ AIN-76A
- □ AIN-93G
- ▥ 93G-1.375% DAG
- ▨ 93G-2.75% DAG
- ▩ 93G-5.5% DAG

X-axis categories: Proximal, Middle, Distal, Colon, Total

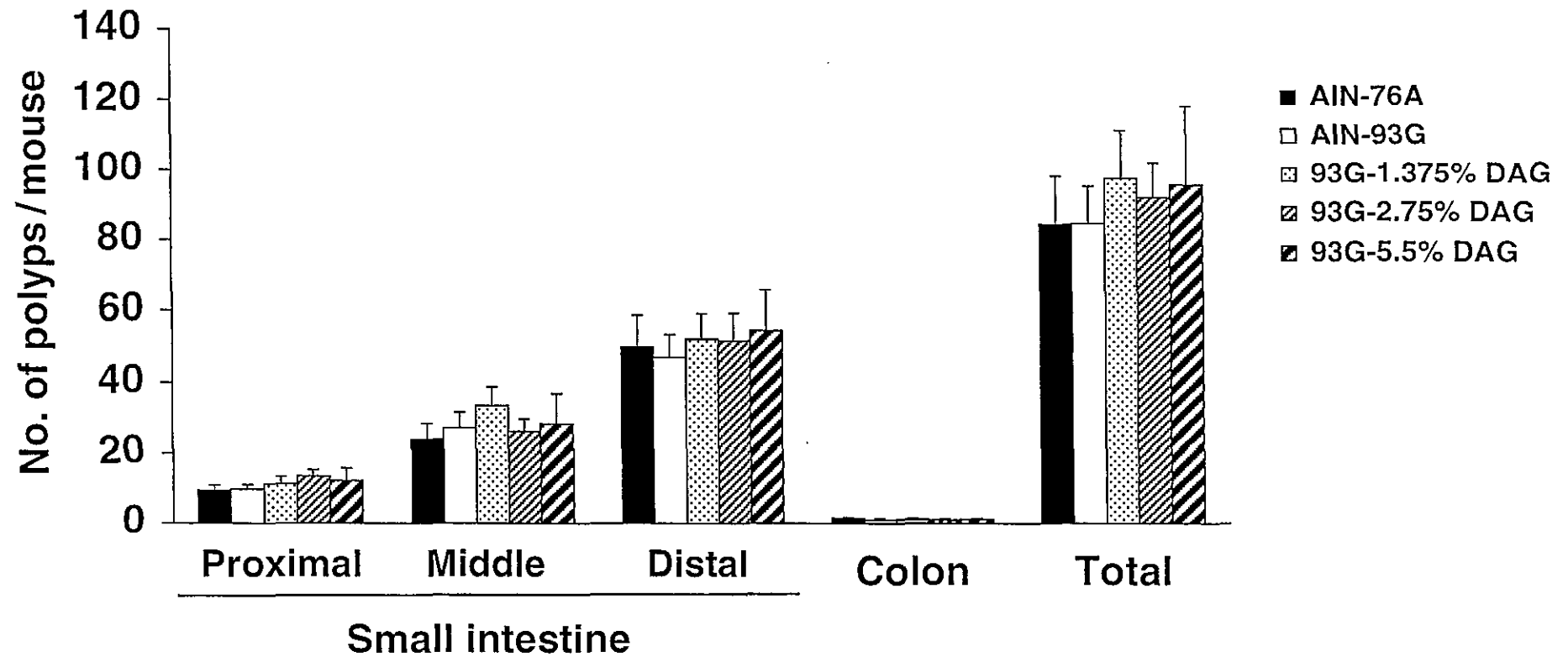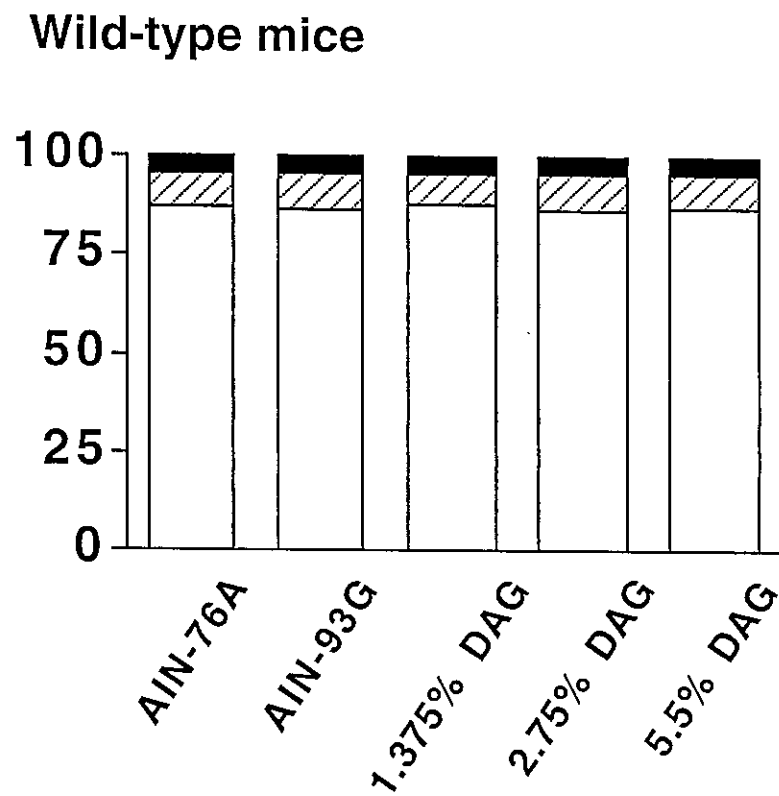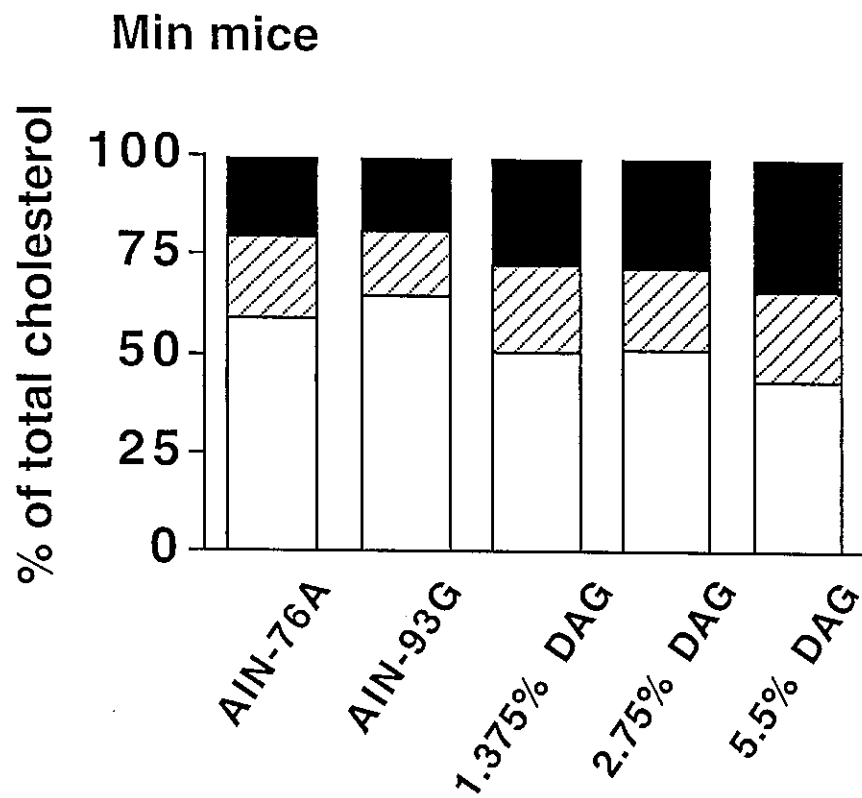Small intestine (spanning Proximal, Middle, Distal)

表 4   **Effect of DAG on Serum Lipid Levels in Min Mice**

Genotype	Treatment	No. of mice	Triglyceride (mg/dl)	Total cholesterol (mg/dl)	Free fatty acids (μEQ/l)
Min	AIN-76A	12	196.9 ± 52.7[a]	99.8 ± 9.0	893.3 ± 117.3
	AIN-93G	12	239.5 ± 64.7 (100%)	96.3 ± 9.1 (100%)	786.3 ± 122.1 (100%)
	93G-1.375% DAG	12	354.8 ± 77.5 (148%)	104.7 ± 6.4 (109%)	791.4 ± 73.3 (101%)
	93G-2.75% DAG	11	285.4 ± 91.1 (119%)	99.1 ± 10.2 (103%)	766.3 ± 89.9 (98%)
	93G-5.5% DAG	11	328.9 ± 95.6 (137%)	119.1 ± 9.9 (124%)	817.0 ± 89.4 (104%)
Wild-type	AIN-76A	6	45.2 ± 15.0	83.2 ± 26.8	737.5 ± 169.6
	AIN-93G	6	26.7 ± 6.9 (100%)	70.8 ± 17.7 (100%)	691.0 ± 127.5 (100%)
	93G-1.375% DAG	6	35.8 ± 10.7 (134%)	65.2 ± 15.8 (92%)	529.8 ± 112.6 (77%)
	93G-2.75% DAG	6	27.3 ± 7.5 (103%)	72.2 ± 18.8 (102%)	737.0 ± 129.5 (107%)
	93G-5.5% DAG	6	36.2 ± 8.4 (136%)	88.3 ± 18.6 (125%)	815.7 ± 196.3 (118%)

[a] Mean ± SE.

図9

The Ratios of Cholesterol Lipoproteins

Min mice

Wild-type mice

y-axis (left chart): % of total cholesterol — 0, 25, 50, 75, 100

x-axis (both charts): AIN-76A, AIN-93G, 1.375% DAG, 2.75% DAG, 5.5% DAG

Legend: ■ VLDL-C ▨ LDL-C ☐ HDL-C