*Fig. 1*

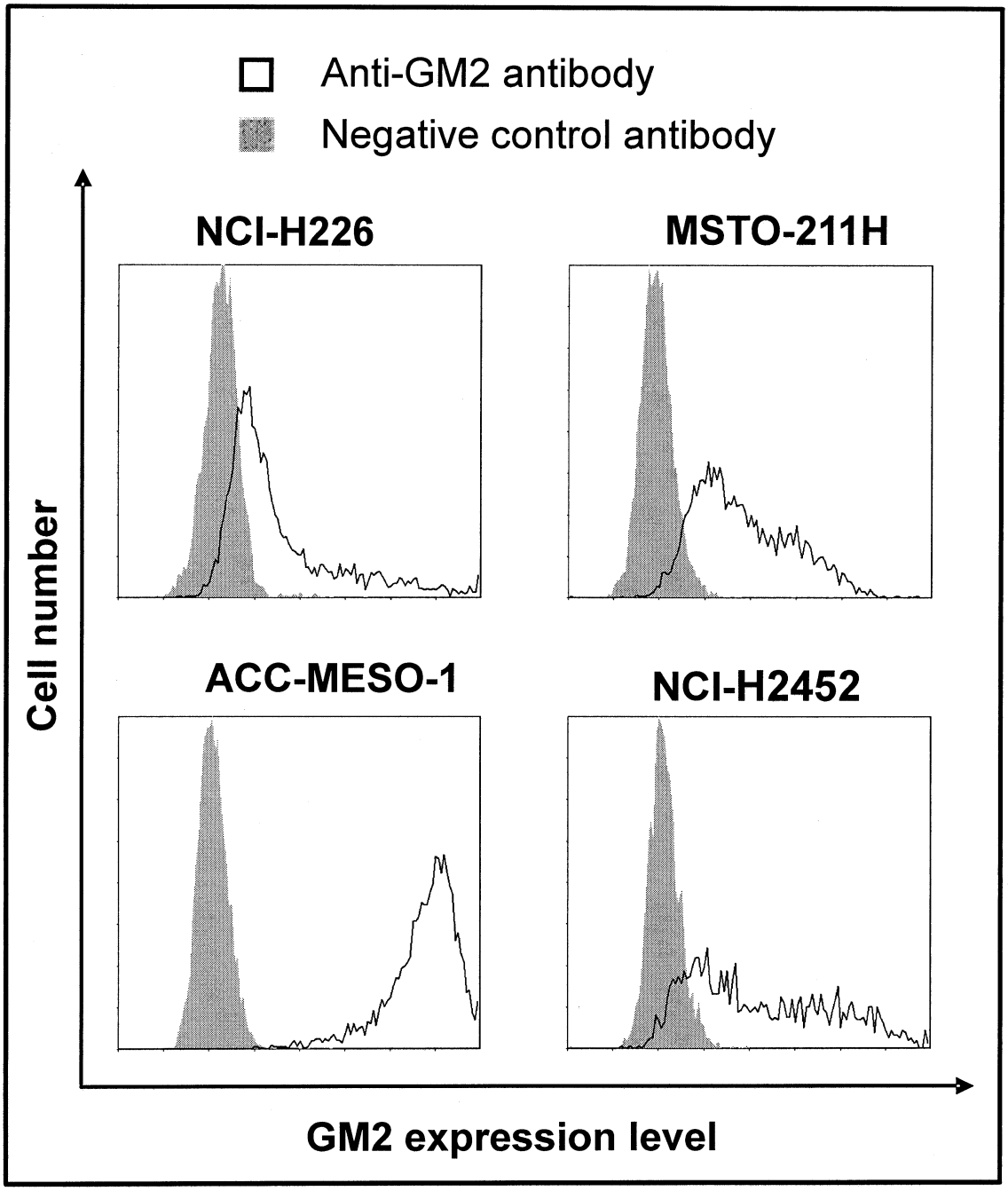

Anti-GM2 antibody
Negative control antibody
NCI-H226
MSTO-211H
ACC-MESO-1
NCI-H2452
Cell number
GM2 expression level

*Fig. 2*

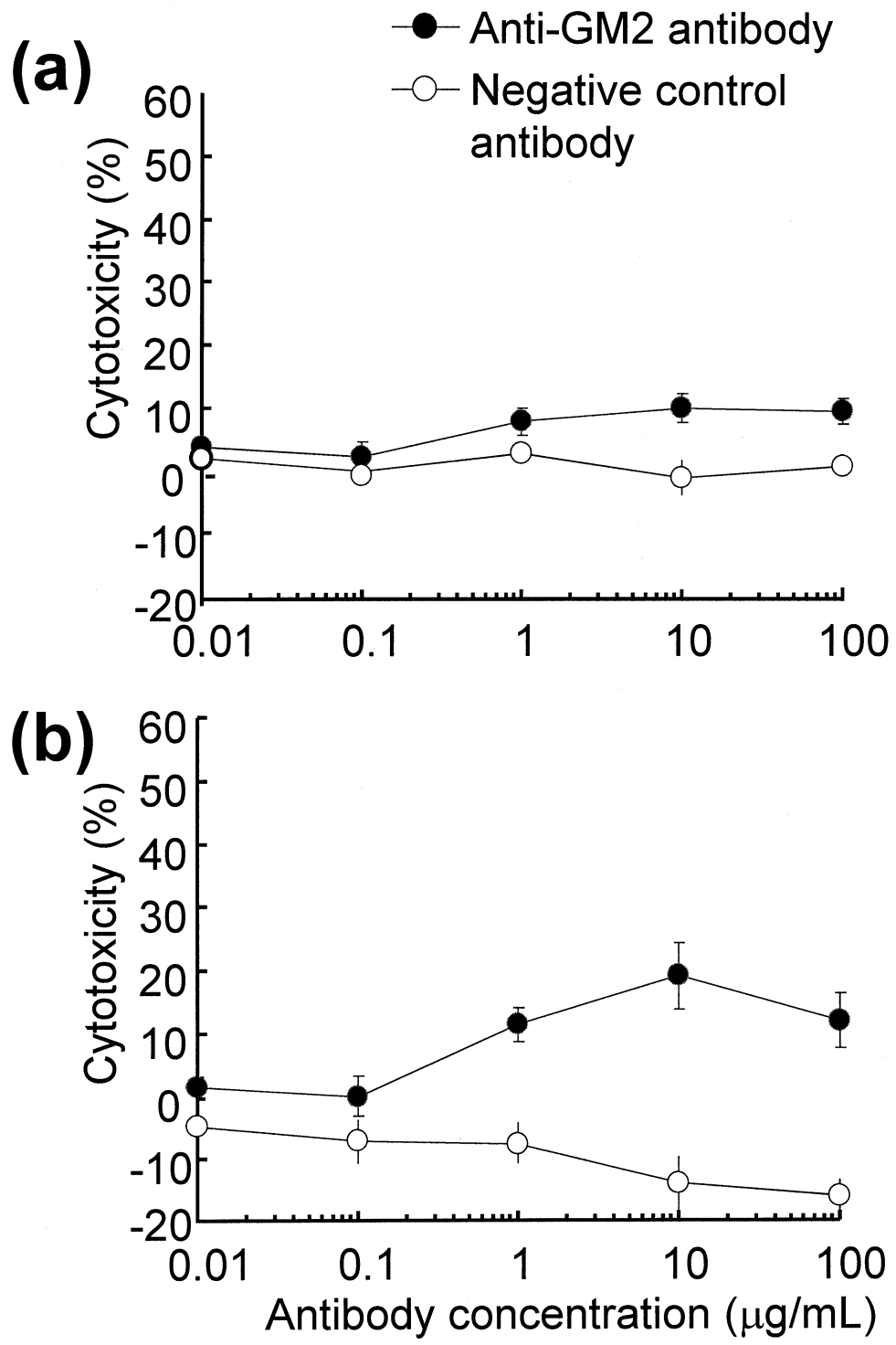
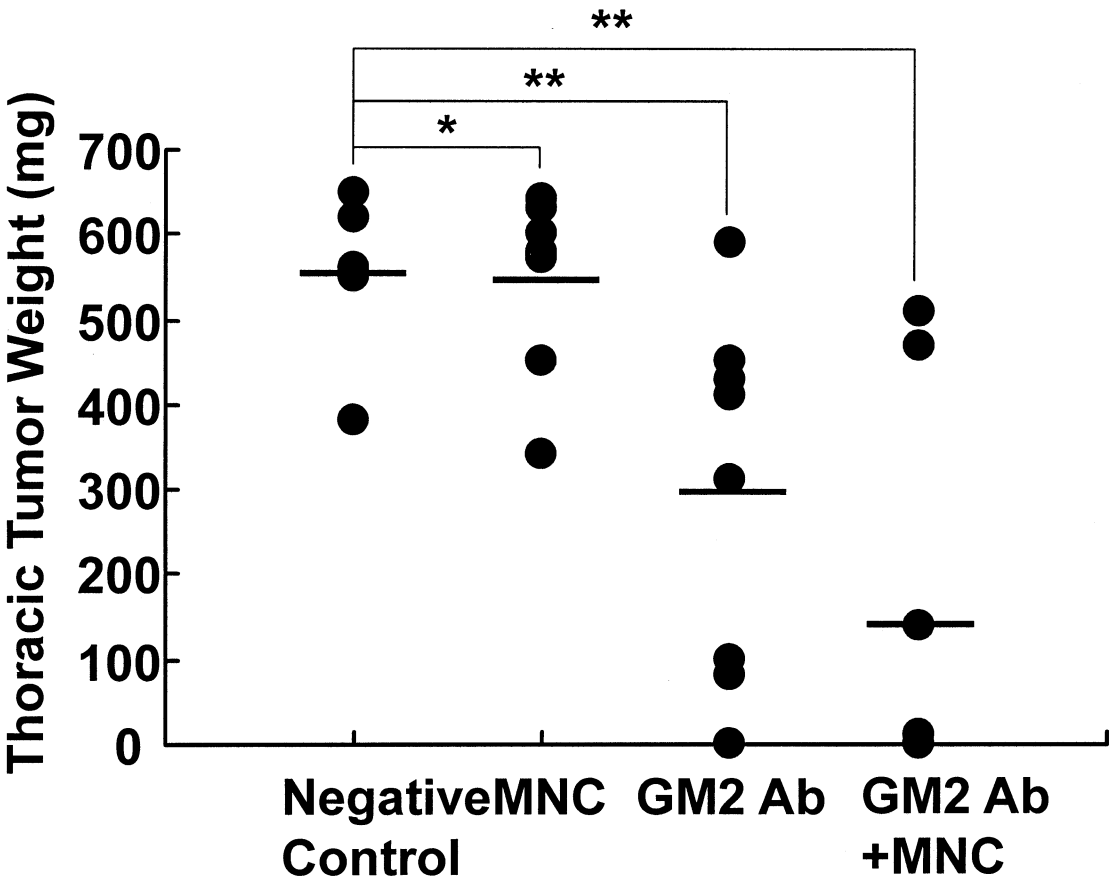

(a)
Anti-GM2 antibody
Negative control antibody
Cytotoxicity (%)
60
50
40
30
20
10
0
-10
-20
0.01
0.1
1
10
100
(b)
Cytotoxicity (%)
60
50
40
30
20
10
0
-10
-20
0.01
0.1
1
10
100
Antibody concentration (μg/mL)

*Fig. 3*




**Dunnett's multiple comparison test**

*** P>0.05**

**** P<0.01**

*Fig. 4*

| Sample ID | Age | Gender | Tissue Origin /Detected Tissue | Disease type by Pathological Classification | TNM Classification | Minimum Stage Grouping | Normal Tissue (%) | Lesion area (%) | Tumor Tissue (%) | Tumor/ Hyper-cellular Stroma (%) | Tumor/ Hypo-cellular or Acellular Stroma (%) | Necrosis (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FR00004AF8 | 62 | Male | Pleura / Lung | Mesothelioma of pleura, mixed type | pT3pN1pMX | III | 0 | 0 | 90 | 5 | 5 | 0 |
| FR00005932 | 68 | Male | Pleura / Pleura | Mesothelioma of pleura | pT3pN1pMX | III | 0 | 0 | 20 | 0 | 80 | 0 |
| FR00005E39 | 57 | Male | Pleura / Pleura | Mesothelioma of pleura | pTXpNXpMX | Not Reported | 0 | 0 | 70 | 15 | 15 | 0 |
| FR00017430 | 69 | Male | Pleura / Pleura | Mesothelioma of pleura | pT2pN0pMX | II | 0 | 0 | 90 | 5 | 5 | 0 |
| FR0001A6C1 | 68 | Male | Pleura / Lung | Mesothelioma of pleura, mixed type | pT3pN1pMX | III | 0 | 0 | 35 | 20 | 45 | 0 |
| FR0001CA2A | 65 | Male | Peritoneum / Colon | Mesothelioma of mesentery | Not Reported | Not Reported | 0 | 0 | 80 | 10 | 10 | 0 |
| FR0001D4BA | 58 | Male | Pleura / Pleura | Mesothelioma of pleura, mixed type | pT2pN0pMX | II | 30 | 0 | 30 | 0 | 40 | 0 |
| FR00020029 | 69 | Male | Pleura / Pleura | Mesothelioma of pleura, mixed type | pT1pNXpMX | I | 0 | 0 | 60 | 20 | 20 | 0 |
| FR0002081F | 53 | Male | Pleura / Lung | Mesothelioma of pleura | pT3pN1pM1 | IV | 0 | 0 | 65 | 0 | 35 | 0 |
| FR000265FD | 57 | Female | Pleura / Pleura | Mesothelioma of pleura | pT3pN1pMX | III | 0 | 0 | 85 | 0 | 15 | 0 |
| FR0002731F | 73 | Male | Pleura / Pleura | Mesothelioma of pleura | pTXpNXpMX | Not Reported | 0 | 0 | 15 | 25 | 40 | 20 |
| FR00026B23 | 52 | Male | Pleura / Pleura | Mesothelioma of pleura, mixed type | pT3pN0pMX | III | 0 | 85 | 15 | 0 | 0 | 0 |
| FR000265A2 | 71 | Male | Pleura / Pleura | Mesothelioma of pleura, mixed type | pT4pNXpMX | IV | 0 | 0 | 50 | 0 | 50 | 0 |
| FR0002939E | 50 | Male | Pleura / Pleura | Mesothelioma of pleura, mixed type | pT4pN0pMX | IV | 0 | 0 | 90 | 5 | 5 | 0 |
| FR00035469 | 65 | Male | Pleura / Pleura | Mesothelioma of pleura | pT2pN2pMX | III | 0 | 0 | 25 | 75 | 0 | 0 |
| FR000011E5 | 71 | Male | Lung / Lung | Mesothelioma of pleura | pT2pN0pMX | IIA | 20 | 0 | 20 | 60 | 0 | 0 |
| FR00002E6B | 81 | Male | Pleura / Chest wall | Mesothelioma of pleura, epithelial type | pTXpNXpMX | Not Reported | 0 | 0 | 85 | 0 | 15 | 0 |
| FR00006328 | 66 | Male | Pleura / Pleura | Mesothelioma of pleura | pT2pN0pMX | II | 0 | 0 | 55 | 35 | 10 | 0 |
| FR00006A38 | 86 | Male | Pleura / Pleura | Mesothelioma of pleura | pTXpNXpMX | Not Reported | 30 | 0 | 50 | 0 | 20 | 0 |
| FR00018ABD | 55 | Male | Pleura / Pleura | Mesothelioma of pleura | pT1pNXpMX | I | 0 | 0 | 50 | 0 | 50 | 0 |
| FR00016972 | 63 | Not Specified | Pleura / Pleura | Mesothelioma of pleura | pT1pNXpMX | I | 0 | 0 | 50 | 5 | 45 | 0 |
| SX00002843 | 61 | Male | Pleura / Abdominal wall | Mesothelioma of pleura, metastatic | pT4pNXpMX | IV | 0 | 0 | 40 | 20 | 40 | 0 |
| FR0001742F | 69 | Male | Pleura / Pleura | Mesothelioma of pleura | pT2pN0pMX | II | 0 | 0 | 90 | 5 | 5 | 0 |
| FR000265FE | 57 | Female | Pleura / Pleura | Mesothelioma of pleura | pT3pN1pMX | III | 0 | 0 | 85 | 0 | 15 | 0 |
| FR000293A0 | 50 | Male | Pleura / Pleura | Mesothelioma of pleura, mixed type | pT4pN0pMX | IV | 0 | 0 | 90 | 5 | 5 | 0 |
| FR00002E64 | 81 | Male | Pleura / Chest wall | Mesothelioma of pleura, epithelial type | pTXpNXpMX | Not Reported | 10 | 0 | 55 | 0 | 35 | 0 |