

Supplementary Table S5 - Clinical characteristics of YKL-40_{high} and YKL-40_{low} patients in cohort 1 to 6.

| Cohort 1 GSE14333 (N = 226) | | | |
|-----------------------------|-----------------------------|------------------------------|---------|
| | YKL-40 low N=199 (88.1%) | YKL-40 high N=27 (11.9%) | p-value |
| Gender ^a | | | |
| Male | 106 (53.3%) | 14 (51.9%) | 1 |
| Female | 93 (46.7%) | 13 (48.1%) | |
| Age (mean) ^b | 65.6 | 69.4 | 0.15 |
| Stage ^a | | | |
| I | 40 (20.1%) | 1 (3.7%) | 0.07 |
| II | 79 (39.7%) | 15 (55.6%) | |
| III | 80 (40.2%) | 11 (40.7%) | |
| Location ^a | | | |
| Proximal R | 88 (44.2%) | 13 (48.2%) | 0.63 |
| Distal L | 84 (42.2%) | 9 (33.3%) | |
| Rectum | 25 (12.6%) | 5 (18.5%) | |
| Unknown | 2 (1%) | 0 | |
| Cohort 2 GSE37892 (N = 130) | | | |
| | YKL-40 low N=64 (49.2%) | YKL-40 high N=66 (50.8%) | p-value |
| Gender ^a | | | |
| Male | 36 (56.3%) | 33 (50%) | 1 |
| Female | 28 (43.7%) | 33 (50%) | |
| Age (mean) ^b | 69.2 | 67.3 | 0.38 |
| Stage ^a | | | |
| I | 0 | 0 | 0.29 |
| II | 39 (60.9%) | 34 (51.5%) | |
| III | 25 (39.1%) | 32 (48.5%) | |
| Location ^a | | | |
| Proximal R | 28 (43.8%) | 29 (43.9%) | 1 |
| Distal L | 36 (56.2%) | 36 (54.6%) | |
| Rectum | 0 | 0 | |
| Unknown | 0 | 1 (1.5%) | |
| Cohort 3 GSE41258 (N=128) | | | |
| | YKL-40 low N=14 (10.9%) | YKL-40 high N=114 (89.1%) | p-value |
| Gender ^a | | | |
| Male | 7 (50%) | 58 (50.9%) | 1 |
| Female | 7 (50%) | 56 (49.1%) | |
| Age (mean) ^b | 57.7 | 65.9 | 0.06 |
| Stage ^a | | | |
| I | 4 (28.6%) | 24 (21%) | 0.82 |
| II | 5 (35.7%) | 46 (40.4%) | |
| III | 5 (35.7%) | 44 (38.6%) | |
| IV | 0 | 0 | |

| Location ^a | | | |
|-----------------------|-----------|------------|------|
| Proximal R | 5 (35.7%) | 47 (41.2%) | 0.91 |
| Distal L | 8 (57.1%) | 58 (50.9%) | |
| Rectum | 1 (7.2%) | 9 (7.9%) | |
| Unknown | 0 | 0 | |

Cohort 4 GSE40967 (N=585)

| | YKL-40 low N=524 (89.6%) | YKL-40 high N=61 (10.4%) | p-value |
|---------------------|-----------------------------|-----------------------------|---------|
| Gender ^a | | | |
| Male | 286 (54.6%) | 36 | 0.58 |
| Female | 238 (45.4%) | 25 | |

| | | | |
|-------------------------|------|------|------|
| Age (mean) ^b | 66.9 | 66.6 | 0.81 |
|-------------------------|------|------|------|

| Stage ^a | | | |
|--------------------|-------------|------------|------|
| 0 | 3 (0.6%) | 1 (1.6%) | 0.68 |
| I | 36 (6.9%) | 2 (3.3%) | |
| II | 242 (46.2%) | 29 (47.5%) | |
| III | 186 (35.5%) | 24 (39.4%) | |
| IV | 55 (10.5%) | 5 (8.2%) | |
| Unknown | 2 (0.3%) | 0 | |

| Location ^a | | | |
|-----------------------|-------------|------------|------|
| Proximal R | 211 (40.3%) | 21 (34.4%) | 0.53 |
| Distal L | 311 (59.3%) | 40 (65.6%) | |
| Rectum | 0 | 0 | |
| Unknown | 2 (0.4%) | 0 | |

| KRAS status ^a | | | |
|--------------------------|-------------|------------|------|
| Wild type | 291 (55.5%) | 37 (60.7%) | 0.58 |
| Mutant | 198 (37.8%) | 19 (31.1%) | |
| Unknown | 35 (6.7%) | 5 (8.2%) | |

Cohort 5 GSE5851 (N = 80)

| | YKL-40 low N=18 (22.5%) | YKL-40 high N=62 (77.5%) | p-value |
|---------------------|----------------------------|-----------------------------|---------|
| Gender ^a | | | |
| Male | 8 (44.4%) | 36 (58%) | 0.42 |
| Female | 10 (55.6%) | 26 (42%) | |

| | | | |
|-------------------------|------|------|------|
| Age (mean) ^b | 61.5 | 60.7 | 0.86 |
|-------------------------|------|------|------|

| KRAS status ^a | | | |
|--------------------------|---------|----------|------|
| WT | 9 (50%) | 44 (71%) | 0.16 |
| Mutant | 9 (50%) | 18 (29%) | |
| Unknown | 0 | 0 | |

Cohort 6 TCGA (N=387)

| | YKL-40 low N=60 (15.5%) | YKL-40 high N=327 (84.5%) | p-value |
|---------------------|----------------------------|------------------------------|---------|
| Gender ^a | | | |
| Male | 30 (50%) | 178 (54.4%) | 0.57 |

| | | | |
|--------------------------------|------------|-------------|-------|
| Female | 30 (50%) | 149 (45.6%) | |
| Age (mean)^b | 65.2 | 68.4 | 0.09 |
| Stage^a | | | |
| I | 8 (13.3%) | 56 (17.1%) | 0.67 |
| II | 21 (35%) | 130 (39.8%) | |
| III | 18 (30%) | 86 (26.3%) | |
| IV | 10 (16.7%) | 47 (14.4%) | |
| Unknown | 3 (5%) | 8 (2.4%) | |
| KRAS status^a | | | |
| WT | 8 (13.3%) | 12 (3.7%) | 0.008 |
| Mutant | 3 (5%) | 12 (3.7%) | |
| Unknown | 49 (81.7%) | 303 (92.6%) | |

^a χ^2 -test

^b t-test