

Supplementary Table 3. Number (%) of patients of IHC scoring for each biomarker by histology and MSKCC prognostic risk group.

N (%)	Histology			MSKCC Risk Group			Overall
	Papillary (n=43)	Chromophobe (n=13)	Undifferentiated (n=22)	Good (n=23)	Intermediate (n=44)	Poor (n=11)	(N=78)
pAkt							
0	19 (44.2)	9 (69.2)	13 (59.1)	12 (52.2)	23 (52.3)	6 (54.5)	41 (52.6)
1+	23 (53.5)	4 (30.8)	8 (36.4)	9 (39.1)	21 (47.7)	5 (45.5)	35 (44.9)
2+	1 (2.3)	0 (0)	0 (0)	1 (4.3)	0 (0)	0 (0)	1 (1.3)
Missing	0 (0)	0 (0)	1 (4.5)	1 (4.3)	0 (0)	0 (0)	1 (1.3)
pS6							
0	4 (9.3)	6 (46.2)	0 (0)	6 (26.1)	4 (9.1)	0 (0)	10 (12.8)
1+	19 (44.2)	4 (30.8)	8 (36.4)	9 (36.1)	20 (45.5)	2 (18.2)	31 (39.7)
2+	14 (32.6)	1 (7.7)	6 (27.3)	4 (17.4)	14 (31.8)	3 (27.3)	21 (26.9)
3+	6 (14)	1 (7.7)	7 (31.8)	3 (13)	5 (11.4)	6 (54.5)	14 (17.9)
Missing	0 (0)	1 (7.7)	1 (4.5)	1 (4.3)	1 (2.3)	0 (0)	2 (2.6)
HIF-1α							
0	10 (23.3)	3 (23.1)	8 (36.4)	5 (21.7)	11 (25)	5 (45.5)	21 (26.9)
1+	27 (62.8)	6 (46.2)	7 (31.8)	14 (60.9)	23 (52.3)	3 (27.3)	40 (51.3)
2+	2 (4.7)	1 (7.7)	2 (9.1)	0 (0)	3 (6.8)	2 (18.2)	5 (6.4)
3+	3 (7)	2 (15.4)	0 (0)	2 (8.7)	3 (6.8)	0 (0)	5 (6.4)
Missing	1 (2.3)	1 (7.7)	5 (22.7)	2 (8.7)	4 (9.1)	1 (9.1)	7 (9)
c-kit							
0	39 (90.7)	4 (30.8)	20 (90.9)	19 (82.6)	36 (81.8)	8 (72.7)	63 (80.8)
1+	0 (0)	6 (46.2)	0 (0)	3 (13)	3 (6.8)	0 (0)	6 (7.7)
2+	2 (4.7)	2 (15.4)	0 (0)	1 (4.3)	1 (2.3)	2 (18.2)	4 (5.1)
3+	1 (2.3)	0 (0)	0 (0)	0 (0)	1 (2.3)	0 (0)	1 (1.3)
Missing	1 (2.3)	1 (7.7)	2 (9.1)	0 (0)	3 (6.8)	1 (9.1)	4 (5.1)
c-MET							
0	4 (9.3)	3 (23.1)	0 (0)	3 (13)	3 (6.8)	1 (9.1)	7 (9.0)
1+	14 (32.6)	6 (46.2)	9 (40.9)	8 (34.8)	19 (43.2)	2 (18.2)	29 (37.2)
2+	15 (34.9)	3 (23.1)	6 (27.3)	6 (26.1)	13 (29.5)	5 (45.5)	24 (30.8)
3+	6 (14)	0 (0)	4 (18.2)	4 (17.4)	4 (9.1)	2 (18.2)	10 (12.8)
Missing	4 (9.3)	1 (7.7)	3 (13.6)	2 (8.7)	5 (11.4)	1 (9.1)	8 (10.3)