



Supplementary Figure 1: A. Anti-integrin α v β 6 IgG dilution curves in UC patients and normal volunteers. B. Pearson's correlation between IgG normalized OD450 anti- α v β 6 values and area under the curve (AUC) from dilution curves shown in A.

Supplementary Table 1: Conditional logistic regression models comparing anti- α v β 6 at each sample timepoint in those that developed UC compared to matched controls.

	OR	CI 95% (lower)	CI 95% (upper)	P value
Sample A anti- α v β 6	4.94	2.16	11.30	0.0002
Sample B anti- α v β 6	24.88	4.22	146.75	0.0004
Sample C anti- α v β 6	6.90	2.21	21.56	0.0009
Sample D anti- α v β 6	23.99	3.37	170.82	0.0015

OR = Odds Ratio, CI = confidence interval

Supplementary Table 2: Multivariate logistic regression model where ulcerative colitis status was modeled as function of anti- α v β 6 and multiple covariates such as age, sex and race based in the COMPASS cohort.

	OR	CI 95% (lower)	CI 95% (upper)	P value
Sex [ref: Male] Female	1.04	0.15	7.02	0.97
Age	0.91	0.84	0.99	0.03
Race [ref: White] Asian	0.17	0.0005	57.19	0.55
Race [ref: White] Black	0.42	0.03	5.52	0.51
Race [ref: White] Other	0.50	0.06	4.21	0.52
Anti- α v β 6	64.05	7.41	553.74	0.0002

OR = Odds Ratio, CI = confidence interval

Supplementary Table 3: Multivariate logistic regression model where ulcerative colitis status was modeled as function of anti- α v β 6 and multiple covariates such as age, sex and race based in the OSCCAR cohort.

	OR	CI 95% (lower)	CI 95% (upper)	P value
Sex [ref: Male] Female	2.93	0.80	10.70	0.10
Age	1.00	0.96	1.03	0.86
Race [ref: White] Asian	0.00	0.00	Infinity	0.99
Race [ref: White] Black	0.03	0.00	0.33	0.005
Race [ref: White] Other	0.02	0.00	0.43	0.01
Anti- α v β 6	156.29	12.53	1949.04	0.0001

OR = Odds Ratio, CI = confidence interval

Supplementary Table 4: Cox regression time to composite event with covariate of anti- α v β 6 in COMPASS cohort.

Model 1				
Variable	HR	CI 95% (lower)	CI 95% (upper)	P value
anti- α v β 6	1.39	1.03	1.89	0.03
Age	0.99	0.96	1.02	0.37
Model 2				
anti- α v β 6	1.35	0.99	1.85	0.06
Age	0.99	0.96	1.02	0.46
Extensive disease at baseline (E3)	1.45	0.68	3.09	0.33

Supplementary Table 5: Cox regression time to composite event with covariate of anti- $\alpha\beta6$ in the OSCCAR cohort.

Variable	HR	CI 95% (lower)	CI 95% (upper)	P value
anti- $\alpha\beta6$	1.24	1.01	1.53	0.04
Age <40 years old at diagnosis	1.05	0.57	1.95	0.87
Extensive disease at baseline (E3)	1.23	0.66	2.28	0.52
ESR elevation at baseline	0.70	0.32	1.53	0.38
CRP elevation at baseline	0.39	0.12	1.27	0.12
Steroids at baseline	1.64	0.84	3.23	0.15
Focal ulcers on baseline endoscopy	3.39	0.91	12.65	0.07
Hospitalization at diagnosis	1.27	0.59	2.76	0.54

Supplementary Table 6: Cox regression time to composite event with covariate of pANCA in the OSCCAR cohort

Variable	HR	CI 95% (lower)	CI 95% (upper)	P value
anti- $\alpha\beta6$	1.28	1.02	1.62	0.04
pANCA	0.75	0.36	1.54	0.43
Age <40 years old at diagnosis	1.10	0.59	2.05	0.76
Extensive disease at baseline (E3)	1.18	0.63	2.19	0.61
ESR elevation at baseline	0.69	0.32	1.50	0.35
CRP elevation at baseline	0.36	0.11	1.20	0.10
Steroids at baseline	1.69	0.86	3.32	0.13
Focal ulcers on baseline endoscopy	3.54	0.93	13.44	0.06
Hospitalization at diagnosis	1.21	0.55	2.63	0.64