

Title	Aberrant MUC Immunohistochemical Expressions in Inflammatory Bowel Diseases
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Note	

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**Table 1.** Characteristics of patients and MUC immunohistochemical results

No.	Age	Sex	Group	MUC1	MUC5AC	MUC6
1	88	F	Control	-	+	-
2	89	M	Control	-	+	-
3	75	M	Control	-	-	-
4	41	F	Control	-	-	-
5	89	F	Control	-	-	-
6	80	F	Control	+	+	-
7	71	F	Control	+	-	-
8	80	M	Control	+	+	-
9	79	M	Control	-	-	-
10	83	M	Control	-	+	-
11	79	M	Control	-	-	-
12	77	M	Control	+	+	-
13	87	M	Control	+	+	-
14	76	M	Control	-	+	-
15	94	F	Control	-	+	-
16	68	M	UC	-	+	-

17	28	F	UC	+	+	+
18	46	F	UC	+	+	-
19	41	M	UC	+	+	-
20	54	F	UC	+	+	-
21	39	M	UC	+	+	-
22	61	M	UC	+	+	-
23	45	F	UC	-	+	-
24	69	F	UC	+	+	-
25	50	M	UC	+	+	-
26	56	M	UC	+	+	-
27	76	F	UC	+	+	-
28	30	F	UC	+	+	-
29	63	M	UC	+	+	-
30	65	M	UC	+	+	-
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31	90	M	CD	-	+	-
32	41	M	CD	+	+	+
33	34	M	CD	+	-	+
34	76	F	CD	+	+	+

35	46	M	CD	+	-	-
36	51	F	CD	-	-	-
37	23	F	CD	-	-	-
38	65	M	CD	-	-	-
39	54	M	CD	+	+	+
40	63	M	CD	+	+	-
41	61	F	CD	+	+	+
42	58	M	CD	+	+	-
43	37	M	CD	+	+	+
44	75	M	CD	-	-	-
45	31	M	CD	+	+	+
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46	66	M	IC	-	+	-
47	77	M	IC	-	+	-
48	85	F	IC	-	+	-
49	74	M	IC	+	+	-
50	54	M	IC	+	+	-
51	56	F	IC	+	+	-
52	73	M	IC	-	+	-

53	41	F	IC	-	+	-
54	79	M	IC	-	+	-
55	79	M	IC	+	+	-
56	61	M	IC	+	+	-
57	40	F	IC	+	+	-
58	80	F	IC	-	+	-
59	81	M	IC	+	+	-
60	86	M	IC	+	+	-

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CD, Crohn's disease; IC, Ischemic colitis; UC, ulcerative colitis

**Table 2.** Primary antibodies used in the analysis

Antibody	Clone	Dilution	Manufacturer	Control cells
MUC1	H23	ready to use	Roche	pulmonary alveolar epithelial cell
MUC5AC	MRQ-19	ready to use	Roche	gastric foveolar epithelium
MUC6	MRQ-20	ready to use	Roche	pyloric gland epithelium

**Table 3.** Results of pairwise comparisons using fisher test

MUC1

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	Control	UC	CD	IC
-	10	2	5	7
+	5	13	10	8

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<i>p</i> value	Control	UC	CD
UC	0.047*	-	-
CD	0.859	1	-
IC	1	0.652	1

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MUC5AC

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	Control	UC	CD	IC
-	6	0	6	0
+	9	15	9	15

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<i>p</i> value	Control	UC	CD
UC	0.1	-	-

CD	1	0.1	-
IC	0.1	1	0.1

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MUC6

	Control	UC	CD	IC
-	15	14	8	15
+	0	1	7	0

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<i>p</i> value	Control	UC	CD
UC	1	-	-
CD	0.038*	0.211	-
IC	1	1	0.038*

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CD, Crohn's disease; IC, ischemic colitis; UC, ulcerative colitis

\*  $p < 0.05$



**Table 4.** Specificity and sensitivity using the panel of MUC1 and MUC6

	UC	CD	UC		CD	
			specificity	sensitivity	specificity	sensitivity
MUC1+/MUC6-	12	3	80%	80%	-	-
MUC1+/MUC6+	1	7	-	-	93%	47%
MUC1-/MUC6-	2	5	-	-	87%	33%

CD, Crohn's disease; UC, ulcerative colitis