

marker	function	positivity in UACL	colonic epithelial cells (outside UACL)
Pdx1	transcription factor; role in decision of cell fate	Supplementary Figure 4	negative (normal and IBD)
Sox9	transcription factor; role in decision of cell fate	Supplementary Figure 4	positive in crypts (normal and IBD)
β-catenin	adherens junction protein (membrane) Wnt-stimulated effector (nuclear)	nuclear staining; Supplementary Figure 4	membrane staining (normal and IBD)
E-cadherin	epithelial transmembrane glycoprotein	decrease of intercellular staining; Supplementary Figure 4	membrane staining (normal and IBD)
CK-19	epithelial cytoskeletal protein	moderate staining; Supplementary Figure 4	membrane staining (normal and IBD)
p53	tumor suppressor gene; cell cycle regulator	nuclear staining; Figure 1	rare nuclear staining (normal) scarce nuclear staining (IBD)
53BP1	tumor protein p53-binding protein1 player in the cellular response to DNA damage	not illustrated	localized to base of the gland (normal); positive (IBD)
Mlh1	mismatch repair gene	Supplementary Figure 4	weak and localized to base of the gland (normal); positive (IBD)
Msh2	mismatch repair gene	Supplementary Figure 4	weak and localized to base of the gland (normal); positive (IBD)
c-myc	oncogene; Wnt target gene; control of DNA replication	Supplementary Figure 4	positive in crypts (normal and IBD)
MUC5AC	secreted mucin glycoprotein, expressed in the stomach; described either in reparation or tumorigenesis process in intestine	Supplementary Figure 3 *	negative (normal and IBD)
MUC6	secreted mucin glycoprotein, expressed in stomach and Brunner's glands	Supplementary Figure 3 *	negative (normal and IBD)
TFF1	protein of the trefoil factor family; expressed in stomach	Supplementary Figure 3 *	negative (normal); some positive (IBD)
marker	function	absence in UACL	colonic epithelial cells (outside UACL)
MUC2	secreted mucin glycoprotein; expressed in the intestine	Supplementary Figure 3	positive (normal and IBD)
TFF3	protein of the trefoil factor family; expressed in the intestine	Supplementary Figure 3 **	positive (normal and IBD)
Cdx2	homeobox gene; specific of adult intestine; implicated in colorectal cancer	Supplementary Figure 3	positive (normal and IBD)
bcl2	anti-apoptotic role	not illustrated	some positive in crypts (normal and IBD)
Ki67	proliferative marker	Supplementary Figure 4	positive; base of the gland (normal and IBD)
TUNEL	apoptosis	Supplementary Figure 4	rare desquamating epithelial cells (normal and IBD)
Mdm2	regulator of p53	not illustrated	rare (normal and IBD)
γH2AX	phosphorylated form of histone H2AX; indicator for DNA damage; recruitment of repair proteins	not illustrated	rare positive cells (normal and IBD)
EGFR	EGF receptor, activated in cancer	not illustrated	expression in colonocytes (normal); sporadic in IBD

* Proportion of positive cells in UACL is variable according to location

** The loss is variable according to location of UACL

Table S3: List of the markers examined to characterize the UACL