Table S1. The sugar-binding specificities of the lectins

Table S1. The	sugai-billullig	specification	of the lettins	
Lectin	Abbreviation	Ratio(C/N)	Specificity	Print monosaccharide
Solanum				
Tuberosum	STL	2.5***	(GlcNAc) _n	GlcNAc
(Potato) Lectin				
Lycopersicon				
Esculentum	LTL	2.8***	Poly-LacNAc and (GlcNAc) _n	LacNAc
(Tomato) Lectin				
Bandeiraea	20.7			
simplicifolia	BS-I	4***	αGal and αGalNAc	Galactose
Soybean			Terminal GalNAc(especially	
Agglutinin	SBA	4.6***	GalNAcα1-3Gal)	GalNAc
			Terminal GlcNAc and (GlcNAc)n,	
Triticum vulgaris	WGA	5.4***	and Sialic acid	GlcNAc
Sambucus Nigra				
Lectin	SNA	2.3***	Sia2-6Galβ1-4Glc(NAc)	GlcNAc

Note:

[▶] Ratio(C/N):relative signal intensity of lectins in colon cancer *vs* normal tissues

^{*}**:*p*<0.001

Table S2. Clinical features of human tissue samples used for IHC experiment

Paired number	Gender	Age	Grade
1	Male	64	II
2	Famale	72	III
3	Male	70	III
4	Male	49	I
5	Male	33	II
6	Female	63	II
7	Female	53	II
8	Male	48	I
9	Male	55	II
10	Female	50	II

Table S3. Identification and relative quantitation of STL-enriched proteins in normal vs colon cancer tissues through quantitative glycoproteomics analysis

IPI Protein name Accession		Replicate 1		Replicate 2	
		Ratio(C/N)	p-value	Ratio(C/N)	p-value
IPI01018712	ACTA2 protein Fragment	16.67	0.99	-	
IPI00021428	Actin alpha skeletal muscle	1.14	0.58	-	
IPI00008603	Actin aortic smooth muscle	N		N	
IPI00021439	Actin cytoplasmic 1	1.05	0.42	1.16	0.46
IPI00025416	Actin gamma enteric smooth muscle	0.85	0.39	-	
IPI00916212	Actin gamma enteric smooth muscle isoform 2 precursor	0.97	0.28	-	
IPI00003269	Beta actin like protein 2	5.26	0.99	-	
IPI00888712	Putative beta actin like protein 3	10	0.99	-	
IPI00218918	Annexin A1	-		С	
IPI00418169	Isoform 2 of Annexin A2	-		1.41	0.69
IPI00334627	Putative annexin A2 like protein	C		-	
IPI00872780	cDNA FLJ51794 highly similar to Annexin A4	С		-	
IPI00329801	Annexin A5	-		1.33	0.61
IPI00221226	Annexin A6	-		1.27	0.58
IPI00784295	Isoform 1 of Heat shock protein HSP 90 alpha	1.72	0.99	1.54	0.98
IPI00382470	Isoform 2 of Heat shock protein HSP 90 alpha	0.96	0.29	1.12	0.34
IPI00414676	Heat shock protein HSP 90 beta	1.45	0.99	1.72	0.99
IPI00555614	Putative heat shock protein HSP 90 beta 3	2.08	0.99	-	
IPI00410714	Hemoglobin subunit alpha	-		0.62	0.22
IPI00654755	Hemoglobin subunit beta	0.79	0.39	1.14	0.72
IPI01018810	Mutant beta globin	1.19	0.8	0.64	0.16
IPI00335168	Isoform Non muscle of Myosin light polypeptide 6	-		0.21	0.01
IPI00019502	Isoform 1 of Myosin 9	1.64	0.99	1.89	0.99
IPI00397526	Isoform 1 of Myosin 10	1.43	0.66	-	
IPI00479307	Isoform 2 of Myosin 10	1.14	0.59	-	
IPI00020501	Myosin 11	0.41	0.01	0.32	0.01
IPI00024870	myosin 11 isoform SM2A	2.38	0.99	-	
IPI00743857	myosin 11 isoform SM1B	0.39	0.99	-	
IPI00744256	myosin 11 isoform SM2B	0.43	0.01	-	
IPI00917753	SET nuclear oncogene	-		2.86	0.99
IPI00301311	Isoform 2 of Protein SET	-		3.7	0.99

Continued

fam	orm 1 of POTE ankyrin domain	Ratio(C/N)	p-value		
fam	orm 1 of POTE ankyrin domain		p varae	Ratio(C/N)	p-value
		0.76	0.1	-	
IPI00739539 PO	ily member E				
	ΓE ankyrin domain family	0.28	0.01	-	
mer	nber F				
IPI00740545 PO	ΓE ankyrin domain family	8.33	0.99	-	
mer	nber I				
IPI00738655 PO	TE ankyrin domain family	50	0.99	-	
mer	nber J				
IPI00977640 sodi	um potassium transporting	1.39	0.72	-	
ATI	Pase subunit alpha 1 isoform d				
	ium potassium transporting	N		-	
ATI	Pase subunit alpha 2				
	ium potassium transporting	С		-	
	Pase subunit alpha 3				
	form Long of Sodium potassium	0.84	0.43	0.71	0.11
	sporting ATPase subunit alpha 1				
	form Short of Sodium potassium	N		-	
	sporting ATPase subunit alpha 1				
	NA FLJ59513 highly similar to	N		-	
	ium potassium transporting				
	Pase alpha 3 chain			0.46	0.02
	ulin alpha 1A chain	-		0.46	0.02
	ulin alpha 4A chain	-		1.75	0.98
	ulin beta ulin beta 2C chain	-		0.99 0.89	0.43 0.38
	NA FLJ55956 highly similar to	1.61	0.98	0.09	0.36
	.	1.01	0.98		
	ulin alpha 6 chain form 1 of Tubulin alpha 3C D	_		0.53	0.03
chai	•			0.55	0.03
	3-3 protein theta	С		_	
	Da protein	-		С	
IPI00303476 ATH	-	_		0.68	0.27
	ochondrial				
IPI00941747 Calı	nexin	N		-	
	eolin 3	_		С	
	NA FLJ51266 highly similar to	С		-	
	onectin				
IPI01015219 cDN	NA FLJ52353 highly similar to	С		-	
	protease regulatory subunit 7				

Continued

IPI	Protein name	Replicate 1		Replicate 2	
Accession		Ratio(C/N)	p-value	Ratio(C/N)	p-value
IPI00000858	cDNA FLJ56180 highly similar to	-		С	
	Negative elongation factor E				
IPI00921995	cDNA FLJ60556 highly similar to	-		C	
	Homo sapiens suppression of				
	tumorigenicity 7 like ST7L transcript				
IPI00010896	Chloride intracellular channel protein 1	-		C	
IPI00012011	Cofilin 1	-		C	
IPI00025874	Dolichyl diphosphooligosaccharide	0.51	0.04	-	
	protein glycosyltransferase subunit 1				
	precursor				
IPI00013079	EMILIN 1	-		N	
IPI00221232	Guanine nucleotide binding protein G I	0.45	0.02	-	
	G S G O subunit gamma 12				
IPI00186460	Isoform 1 of Collagen alpha 1 II chain	-		C	
IPI00477747	Isoform 1 of Follistatin related protein 4	-		C	
IPI00549248	Isoform 1 of Nucleophosmin	-		C	
IPI00827813	Isoform 2F of Cytoplasmic dynein 1	N		-	
	intermediate chain 2				
IPI00337387	Isoform 3 of Pre mRNA processing	N		-	
	factor 40 homolog A				
IPI00179330	Ubiquitin 40S ribosomal protein S27a	N		-	
IPI00291827	Neutral alpha glucosidase C	-		C	
IPI00219773	Ornithine decarboxylase antizyme 1	N		-	
IPI00982925	Truncated beta globin	0.63	0.07	-	

^{*-:} not detected

^{*}N: proteins were detected in normal tissues only.

^{*}C: proteins were detected in colon cancer only.

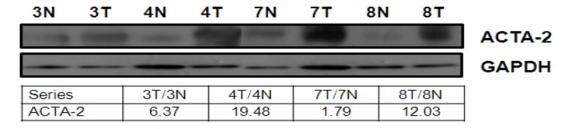
^{*}Significant changes of protein abundances were defined: 1) selecting those proteins identified in at least two of three injections; 2) protein ratios above 1.5 and p-value> 0.95 for three experimental replicates.

Table S4. Clinical features of human tissue samples of TMA

Paired number	Gender	Age	Grade
1	Femal	56	I
2	Male	56	I
3	Male	56	II
4	Male	64	I
5	Male	66	II
6	Male	30	II
7	Male	60	II
8	Male	57	II
9	Femal	77	II
10	Male	63	III
11	Male	67	II
12	Male	42	II
13	Femal	52	II
14	Male	71	II
15	Femal	32	III
16	Male	31	II
17	Male	43	II
18	Male	47	II
19	Male	79	II

Male	52	II
Female	73	П
Male	38	II
Male	70	III
Male	74	II
Female	20	III
	Female Male Male Male	Female 73 Male 38 Male 70 Male 74

Suppl.Fig.1



Suppl. Fig.1 Validation of ACTA-2 in colon cancer by Western Blot. Cell lysates containing equal amounts of proteins from colon cancer and adjacent noncancerous tissues were loaded onto SDS-PAGE gels. The proteins were transferred onto PVDF membrane and probed with the indicated antibodies (ACTA-2 and GAPDH). Equal protein loading was evidenced by detection of GAPDH antibody. Relative protein abundance was determined using normalized densitometry data of western blotting.