

Supplementary Materials: Independent negative prognostic role of TCF1 expression within Wnt/β-catenin signaling pathway in primary breast cancer patients.

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Table S1. Tumor characteristics of 220 invasive breast cancer patients.

Characteristics	n	(%)
<i>Patients Age:</i> median value 54 (range 28-80)		
≤ 54 years	114	(51.8)
> 54 years	106	(48.2)
<i>Histological type</i>		
IDC	187	(85)
ILC	18	(8.2)
Other	15	(6.8)
<i>Histological grade</i>		
G1-2	121	(55)
G3	93	(42.3)
Unknown	6	(2.7)
<i>Tumor size (cm)</i>		
≤2 cm	130	(59.1)
>2 cm	81	(36.8)
Unknown	9	(4.1)
<i>Lymph node status</i>		
Negative	129	(58.6)
Positive	85	(38.6)
Unknown	6	(2.7)
<i>Estrogen receptor</i>		
ER-negative (≤10%)	66	(30)
ER-positive (>10%)	150	(68.2)
Unknown	4	(1.8)
<i>Progesterone receptor</i>		
PgR-negative (≤10%)	97	(44.1)
PgR-positive (>10%)	119	(54.1)
Unknown	4	(1.8)
<i>Ki67</i>		
Negative (≤20%)	126	(57.3)
Positive (>20%)	89	(40.4)
Unknown	5	(2.3)
<i>HER2/neu</i>		
Negative (0,1+)	185	(84.1)
Positive (3+)	28	(12.7)
Unknown	7	(3.2)

Table S2. Relationship between tumor markers and clinicopathological features.

Characteristics	cNHERF1			nNHERF1			β-catenin			FZD 4					
	Negative n	Negative (%)	Positive n	Positive (%)	p-value	Negative n	Negative (%)	Positive n	Positive (%)	p-value	Negative n	Negative (%)	Positive n	Positive (%)	p-value
Patient age															
≤ 54 years	49	(26.1)	50	(26.6)	0.0865	87	(46)	12	(6.4)	0.9831	39	(20.2)	58	(30)	0.4298
> 54 years	33	(17.5)	56	(29.8)		79	(41.8)	11	(5.8)		44	(22.8)	52	(27)	
Histological type															
IDC	69	(36.7)	92	(48.9)	0.7512	141	(74.6)	21	(11.1)	0.2613	69	(35.8)	101	(52.3)	0.0138
ILC	7	(3.7)	9	(4.9)		16	(8.5)	0	/		10	(5.2)	2	(1)	
Other	6	(3.2)	5	(2.6)		9	(4.8)	2	(1)		4	(2)	7	(3.7)	
Tumor size															
≤ 2 cm	58	(32.2)	47	(26.2)	0.0020	94	(52)	12	(6.6)	0.5055	50	(26.8)	60	(32.2)	0.2420
> 2 cm	24	(13.3)	51	(28.3)		64	(35.4)	11	(6)		28	(15)	48	(26)	
Lymph node status															
Negative	50	(26.9)	61	(32.8)	0.7486	98	(53.7)	13	(7)	0.7417	51	(27.3)	61	(32.6)	0.3521
Positive	32	(17.2)	43	(23.1)		65	(35)	10	(5.3)		29	(15.5)	46	(24.6)	
Histological grade															
G1-2	49	(26.8)	49	(26.8)	0.1294	82	(44.6)	17	(9.2)	0.0386	49	(26)	54	(28.7)	0.0896
G3	33	(18)	52	(28.4)		79	(42.9)	6	(3.3)		30	(16)	55	(29.3)	
Estrogen Receptor															
ER-negative (≤ 10%)	26	(14)	31	(16.7)	0.7802	51	(27.3)	7	(3.7)	0.9487	13	(6.9)	48	(25.4)	<0.0001
ER-positive (> 10%)	56	(30.1)	73	(39.2)		113	(60.4)	16	(8.6)		67	(35.4)	61	(32.3)	
Progesterone Receptor															
PgR-negative (≤ 10%)	37	(19.9)	49	(26.3)	0.7866	77	(41.2)	10	(5.3)	0.7545	29	(15)	62	(33)	0.0050
PgR-positive (> 10%)	45	(24.2)	55	(29.6)		87	(46.5)	13	(7)		51	(27)	47	(25)	
HER2/neu															
Negative (0,1+)	70	(38.2)	89	(48.6)	0.8281	143	(77.8)	17	(9.2)	0.7832	68	(39.3)	94	(54.3)	0.0002
Positive (3+)	10	(5.5)	14	(7.7)		21	(11.4)	3	(1.6)		11	(6.4)	0	/	
Ki67															
Negative (≤ 20%)	48	(26)	54	(29.1)	0.4065	91	(49)	12	(6.4)	0.7414	54	(28.7)	52	(27.7)	0.0082
Positive (> 20%)	34	(18.4)	49	(26.5)		72	(38.7)	11	(5.9)		26	(13.8)	56	(29.8)	

continued

Characteristics	LRP5			LRP6			TCF1		
	Negative n	Positive n	p-value	Negative n	Positive n	p-value	Negative n	Positive n	p-value
Patient age									
≤ 54 years	37	(20.6)	54	(30)	0.9771	45	(26.6)	44	(26)
> 54 years	36	(20)	53	(29.4)		26	(15.4)	54	(32)
Histological type									
IDC	61	(33.9)	96	(53.3)	0.4697	59	(35)	89	(52.6)
ILC	7	(3.9)	6	(3.3)		5	(3)	6	(3.5)
Other	5	(2.8)	5	(2.8)		7	(4.1)	3	(1.8)
Tumor size									
≤2 cm	54	(31)	51	(29.3)	0.0009	51	(31.3)	49	(30)
>2 cm	18	(10.3)	51	(29.3)		19	(11.7)	44	(27)
Lymph node status									
Negative	42	(24.1)	63	(36.2)	0.6486	42	(25.6)	59	(36)
Positive	30	(17.2)	39	(22.5)		28	(17)	35	(21.4)
Histological grade									
G1-2	50	(28.7)	42	(24.1)	0.0002	47	(28.7)	40	(24.4)
G3	22	(12.7)	60	(34.5)		22	(13.4)	55	(33.5)
Estrogen Receptor									
ER-negative (≤10%)	19	(10.8)	38	(21.6)	0.1571	12	(7.2)	39	(23.5)
ER-positive (>10%)	53	(30.1)	66	(37.5)		58	(35)	57	(34.3)
Progesterone Receptor									
PgR-negative (≤10%)	27	(15.3)	53	(30.1)	0.0778	23	(13.8)	53	(31.9)
PgR-positive (>10%)	45	(25.6)	51	(29)		47	(28.3)	43	(26)
HER2/neu									
Negative (0,1+)	58	(33.3)	94	(54)	0.0619	60	(36.1)	84	(50.6)
Positive (3+)	13	(7.5)	9	(5.2)		10	(6)	12	(7.3)
Ki67									
Negative (≤ 20%)	51	(29.1)	51	(29.1)	0.0049	47	(28.5)	47	(28.5)
Positive (> 20%)	21	(12)	52	(29.8)		23	(14)	48	(29)