

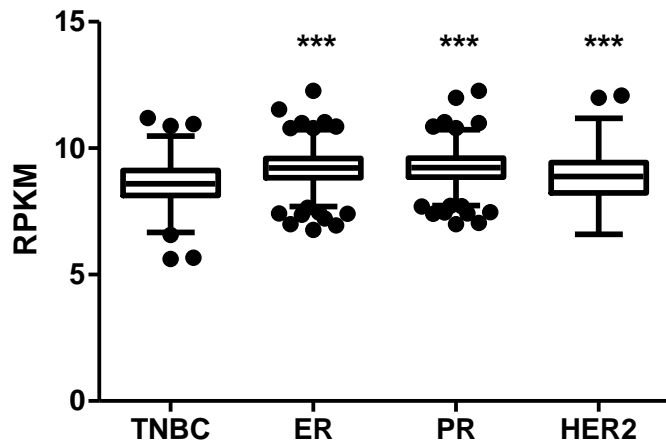
Table S1. The comparisons of DYRK1B expression with different tissues

Variables	TNBC		ER+		PR+		HER2+		<i>p</i> -value*
	Mean±SD	Median	Mean±SD	Median	Mean±SD	Median	Mean±SD	Median	
	(n=178)		(n=809)		(n=699)		(n=166)		
	8.59±0.88 ^{abc}	8.5961	9.20±0.63 ^{ad}	9.2223	9.22±0.63 ^{be}	9.2337	8.91±0.92 ^{cde}	8.8772	<0.001

Abbreviations: TNBC, triple-negative breast carcinoma ; SD, standard deviation.

**p* values were estimated by Kruskal-Wallis one-way ANOVA test.

^a*p*<0.001; ^b*p*<0.001; ^c*p*=0.0014; ^d*p*<0.001; ^e*p*<0.001.



TNBC vs. ER+, *p*<0.001; TNBC vs. PR+,
p<0.001; TNBC vs. HER2+, *p*=0.00144;

Table S2. The DYRK1B expression in tumor tissues and adjacent normal tissues in the three different subtypes of breast cancer

Variables	Tumor adjacent normal		Tumor		Melastatic		<i>p</i> -value
	Mean±SD	Median	Mean±SD	Median	Mean±SD	Median	
	(n=13)		(n=178)		(n=1)		
TNBC	8.67±0.46	8.5871	8.59±0.88	8.5961	8.7507		0.609*
	(n=79)		(n=809)		(n=6)		
ER (+)	8.64±0.55 ^{ab}	8.6020	9.20±0.63 ^a	9.2223	9.18±0.86 ^b	8.9995	<0.001 [§]
	(n=69)		(n=699)		(n=6)		
PR (+)	8.62±0.61 ^{cd}	8.6016	9.22±0.63 ^c	9.2337	9.18±0.86 ^d	8.9995	<0.001 [§]
	(n=21)		(n=166)		(n=1)		
HER2 (+)	8.62±0.34	8.6360	8.91±0.92	8.8772	10.7909		0.005*

Abbreviations: TNBC, triple-negative breast carcinoma ; SD, standard deviation.

**p* values were estimated by Student's *t*-test.

[§]*p* values were estimated by Kruskal-Wallis one-way ANOVA test.

^a*p*<0.001; ^b*p*=0.028; ^c*p*<0.001; ^d*p*=0.029.

Table S3. Impact of DYRK1B expression levels on overall survival by the different demographic and clinicopathologic factors with TNBC

Variable	DYRK1B	No. (%)	CHR (95% CI)	<i>p value</i> *	AHR (95% CI)	<i>p value</i> †
Sex						
Female	Low	66 (53.7)	1		1	
	High	57 (46.3)	3.22 (1.16-8.95)	0.025	2.39 (0.84-6.80)	0.104 ^a
Age, yrs						
≤50	Low	21 (46.7)	1		1	
	High	24 (53.3)	3.18 (0.66-15.34)	0.149	2.73 (0.54-13.76)	0.225 ^a
>50	Low	45 (57.7)	1		1	
	High	33 (42.3)	3.09 (0.79-12.07)	0.105	2.65 (0.66-10.70)	0.171 ^a
AJCC stage						
I, II	Low	56 (57.1)	1		-	
	High	42 (42.9)	2.75 (0.71-10.67)	0.216	-	-
III, IV	Low	9 (40.9)	1		-	
	High	13 (59.1)	2.26 (0.47-10.94)	0.309	-	-
T classification						
T1, T2	Low	61 (56.5)	1		1	
	High	47 (43.5)	2.14 (0.71-6.40)	0.174	1.62 (0.50-5.20)	0.421 ^d
T3, T4	Low	4 (28.6)	1		1	
	High	10 (71.4)	33.40 (0.01-143737.67)	0.411	41.79 (0.01-248111.88)	0.400 ^d
N classification						
N0	Low	49 (62.8)	1		1	
	High	29 (37.2)	4.35 (0.79-24.70)	0.092	4.22 (0.77-23.19)	0.098 ^e
N1, N2, N3	Low	17 (37.8)	1		1	
	High	28 (62.2)	1.60 (0.43-5.93)	0.483	1.53 (0.41-5.68)	0.524 ^e
Postoperative RT						
No	Low	26 (52.0)	1		1	
	High	24 (48.0)	10.30 (1.26-83.96)	0.029	6.02 (0.67-53.96)	0.109 ^a
Yes	Low	35 (57.4)	1		1	
	High	26 (42.6)	3.11 (0.28-34.45)	0.355	1.50 (0.13-16.84)	0.745 ^a

Abbreviations: TNBC, Triple-negative breast cancer; CHR, crude hazard ratio; CI, confidence interval; AHR, adjusted hazard ratio; AJCC, American Joint Committee on Cancer; RT, radiotherapy. **p* values were estimated by Cox's regression. †*p* values were estimated by multivariate Cox's regression. ^aAdjusted for AJCC pathological stage (stage III+ IV vs stage I+II). ^dAdjusted for N classification (N1, N2, N3 vs N0). ^eAdjusted for T classification (T3+ T4 vs T1+T2).