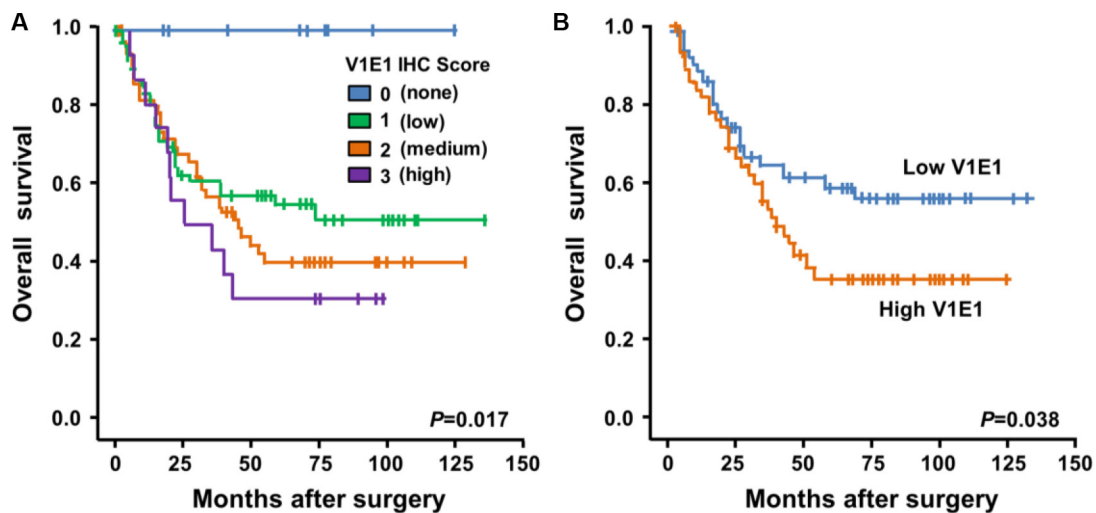


Prognostic significance and function of the vacuolar H⁺-ATPase subunit V1E1 in esophageal squamous cell carcinoma

Supplementary Materials



Supplementary Figure S1: Kaplan-Meier survival curves for overall survival according to the results of V-ATPase V1E1 immunostaining. (A) Kaplan-Meier curves showing overall survival among patients with ESCC on the basis of V-ATPase V1E1 expression status; (IHC score = 0, $n = 12$; IHC score = 1, $n = 72$; IHC score = 2, $n = 60$; IHC score = 3, $n = 16$). (B) Overall survival among patients with ESCC on the basis of V-ATPase V1E1 expression status; low V-ATPase V1E1 (IHC score < 2, $n = 84$) and high V-ATPase V1E1 (IHC score ≥ 2 , $n = 76$). P values are from Log-Rank test.

Supplementary Table S1: Patients characteristics

Characteristics	Case no.(n = 302)	%
<i>Age</i>		
≥ 65 years	269	89
< 65 years	33	11
<i>Sex</i>		
Male	286	95
Female	16	5
<i>Tumor size</i>		
≥ 4.0 cm	110	36
< 4.0 cm	192	64
<i>Differentiation</i>		
W/D	61	21
M/D	185	61
P/D	56	18
<i>TNM Stage</i>		
I	55	18
II	87	29
III	109	36
IV	51	17
<i>Tumor invasion</i>		
T1	61	20
T2	52	17
T3	181	60
T4	8	3
<i>LN metastasis</i>		
Negative	120	40
Positive	182	60
<i>Distant metastasis</i>		
Absent	249	82
Positive	53	18

Supplementary Table S2: Primers used for quantitative PCR

Primer name	sequence
hV-ATPase V1E1 F	5'-GCA CAA GCC GAC CTT TCT-3'
hV-ATPase V1E1 R	5'-TTC ACC GGC CTA GCA TTG -3'
hHIF-1a F	5'-CGT TCC TTC GAT CAG TTG TC-3'
hHIF-1a R	5'-TCA GTG GTG GCA GTG GTA GT-3'
hGlut1-F	5'-CGG GCC AAG AGT GTG CTA AA-3'
hGlut1-R	5'-TGA CGA TAC CGG AGC CAA TG-3'
hHK1-F	5'-TGG AGT CCG AGG TTT ATG-3'
hHK1-R	5'-TTT GGA TTG TTG GCA AGG-3'
hPFK F	5'-CAT GAC CCA TGA AGA GCA CC-3'
hPFK R	5'-CCA ACT CGA ACC ACA GCC CTG-3'
hENO1 F	5'-CGT ACC GCT TCC TTA GAA C-3'
hENO1 R	5'-CAA TGA CTT GGG CCA ATT AC-3'
hPKM2-F	5'-GCC TGC TGT GTC GGA GAA G-3'
hPKM2-R	5'-CTC TCC CAG GAC CTT CCT AA-3'
hLDHA-F	5'-ATC TTG ACC TAC GTG GCT TGG A-3'
hLDHA-R	5'-CCA TAC AGG CAC ACT GGA ATC TC-3'
hVimentin F	5'-GGG ACC TCT ACG AGG AGG AG-3'
hVimentin R	5'-CGC ATT GTC AAC ATC CTG TC-3'
hMMP2 F	5'-CCA CTG CCT TCG ATA CAC-3'
hMMP2 R	5'-GAG CCA CTC TCT GGA ATC TTA AA-3'
hMMP7 F	5'-GAG TGA GCT ACA GTG GGA ACA-3'
hMMP7 R	5'-CTA TGA CGC GGG AGT TTA ACA T-3'
h18s rRNA F	5'-CGG CGA CGA CCC ATT CGA AC-3'
h18s rRNA R	5'-GAA TCG AAC CCT GAT TCC CCG TC-3'