

Appendix

Table 1 Antibodies and immunostaining methods

Antibody	Microwave buffer	Concentration	Incubation
Nrf1 (HPA065424), Sigma Aldrich, Darmstadt, Germany	Tris-EDTA buffer, pH 9	1:500	overnight at +4°C
Nrf2 (ab76026), Abcam plc., Cambridge, UK	sodium citrate buffer, pH 6	1:500	1 h at room temperature
KEAP1 (NBP2-37431), Novus Biologicals, Oxford, UK	sodium citrate buffer, pH 6	1:100	overnight at +4°C
BACH1 (NBP2-01904), Novus Biologicals, Oxford, UK	Tris-EDTA buffer, pH 9	1:100	1 h at room temperature

Table 2 Patient demographics at the time of diagnosis.

	n	%
Sex		
Male	51	67
Female	25	33
Diagnosis		
GC DLBCL	24	32
non-GC DLBCL	32	42
T-cell rich BCL	19	25
NOS/unspecified	1	1
B-symptoms		
None	27	35
Yes	44	58
Missing	5	7
Age		
≤ 60	68	89
> 60	8	11
LD levels		
Normal	9	12
Elevated	63	83
Missing	4	5
Stage		
I-II	11	15
III-IV	64	84
Missing	1	1
WHO performance status		
0-1	39	51
> 1	33	44
Missing	4	5
Extranodal affision		
0-1	35	46
>1	37	49
Missing	4	5
IPI		

0-2	27	35
3-5	47	62
Missing	2	3
Hb		
< 117 g/L / < 134 g/L (women / men)	28	37
117-155 g/L / 134-167 g/L (women / men)	13	17
Missing	41	46
Leukocytes		
< 3.4 x E9/L	8	10
3.4-8.2 x E9/L	24	32
> 8.2 x E9/L	9	12
Missing	35	46
Neutrophils		
< 1.5 x E9/L	7	9
1.5-6.7 x E9/L	22	30
> 6.7 x E9/L	8	10
Missing	39	51
Lymphocytes		
< 1.3 x E9/L	13	17
1.3-3.6 x E9/L	28	21
Missing	41	62
Febrile neutropenia after I cycle		
Yes	10	13
No	66	87

Table 3 Statistically significant associations between immunohistochemistry and disease presentation. *P*-values represent Mann-Whitney U test.

	Positive association	Negative association
Cytoplasmic Nrf1 expression		B-symptoms, <i>P</i> = 0.037
Cytoplasmic Nrf2 expression	Haemoglobin, <i>P</i> = 0.028	B-symptoms, <i>P</i> = 0.046 Stage, <i>P</i> = 0.027
Nuclear Nrf1 expression	I cycle neutropenic infection, <i>P</i> = 0.028	
Nuclear Nrf2 expression	IPI, <i>P</i> = 0.008 I cycle neutropenic infection, <i>P</i> = 0.004	Hb, <i>P</i> = 0.022
Nuclear Bach1 expression	Stage, <i>P</i> = 0.014	