

Table 1. NF- κ B activity in tumor specimens determined by EMSA

Tumor	Number	Histology	Grade*	NF-κB activity (EMSA)[†]	Number positive (%)[‡]	Lymphocytic infiltrate (%)[§]
Class 1: ER-negative/ErbB2-positive	7				6 (85.7%)	2 (33.3%)
72		Ductal	III	+++		+++
196		Ductal	III	++		++
292		Ductal	III	+/-		+
312		Ductal	III	++		+
151		Ductal	III	++		+
187		Ductal	III	++		ND
325		Ductal	III	++		+
Class 2: ER-negative/ErbB2-negative	9				3 (33.3%)	7 (77.7%)
156		Ductal	III	+/-		+
281		Ductal	II	++		++
288		Ductal	III	+++		+++
21		Ductal	III	+/-		++
182		Ductal	III	+/-		++
214		Ductal	II	+/-		+++
265		Ductal	III	+/-		+++

Tumor	Number	Histology	Grade*	NF-κB activity (EMSA)[†]	Number positive (%)[‡]	Lymphocytic infiltrate (%)[§]
330		Ductal	III	++		+
316		Ductal	III	+/-		+++
Class 3: ER-positive /ErbB2-positive	8				1 (12.5%)	3 (50%)
65		Ductal	III	+/-		ND
96		Ductal	III	+/-		ND
267		Ductal	III	+		++
283		Ductal	III	+/-		+
295		Ductal	II	+/-		+++
302		Lobular	II	+/-		+
169		Ductal	III	+/-		+
24		Ductal	I	+/-		++
Class 4: ER-positive /ErbB2-negative	7				1 (14%)	2 (33.3%)
4		Ductal	III	+/-		++
55		Ductal	III	+/-		+
84		Ductal	III	+/-		+
86		Mixed ^e	II	+		++
175		Ductal	II	+/-		+
300		Mixed	II	+		ND

Tumor	Number	Histology	Grade*	NF-κB activity (EMSA)[†]	Number positive (%)[‡]	Lymphocytic infiltrate (%)[§]
194		Lobular	II	+/-		+

*Modified Bloom–Richardson grade, reported clinically.

[†]Activity of NF-κB determined by EMSA and quantified by densitometry. The results were divided into quartiles, with +++ representing values in the highest quartile and +/- representing values in the lowest quartile of band intensity.

[‡]Tumors with NF-κB activity in the top three quartiles (+, ++, or +++) are called “positive” (examples shown in Fig. 1).

[§]Lymphocytic infiltrate was graded blindly and scored as heavy (+++), moderate (++), or scant lymphocytic infiltrate present (+).

χ^2 Test:

ER-negative vs. ER-positive, $P = 0.012$

Class 1 vs. ER-positive pooled, $P = 0.001$

Class 2 vs. ER-positive pooled, $P = 0.24$

Class 1 vs. Class 2, $P = 0.036$