

Supplemental Table: Scoring of Smurf1 and Smurf2 Immunostaining on Breast Cancer Tissue Array

Position	Pathology Diagnosis	Antibody: Smurf1			Antibody: Smurf2			Comments	
		(0-4) Staining Intensity ^a	Staining pattern ^b	% Cells Positive ^c	(0-4) Staining Intensity	Staining pattern	% Cells Positive		
A1	Infiltrating lobular carcinoma and duct carcinoma	2	C	2	2	C	3	Duct	
A2	Breast tissue	2	C	4	2	C	4		
A3	Infiltrating ductal carcinoma not otherwise specified (NOS)	1	C	2	3	C	4		
A4	Breast tissue	1	C	2	1	C	1		
A5	Infiltrating ductal carcinoma not otherwise specified (NOS)			0			0		
A6	Infiltrating ductal carcinoma not otherwise specified (NOS)	1	C,N	2			0		
A7	Infiltrating ductal carcinoma not otherwise specified (NOS)	1	C	2			0		
A8	Breast tissue	2	C	2	1	C	0		
A9	Infiltrating ductal carcinoma not otherwise specified (NOS)	2	C	4	2	C	1		
A10	Fibrous tissues and blood vessel	2	C	4	1	C	4		Breast epithelium in spot.
B1	Infiltrating ductal carcinoma not otherwise specified (NOS)	3	C	4			0	Diffuse pale cytoplasmic staining.	
B2	Breast tissue							Artifacts Small tag of epithelium in spot.	
B3	Breast tissue	2	C	4			0		
B4	Breast tissue			0			0		
B5	Infiltrating ductal carcinoma not otherwise specified (NOS)	3	C	2	2	C	1		
B6	Breast tissue	2	C	3			0		
B7	Infiltrating ductal carcinoma not otherwise specified (NOS)	2	C	2	2	C	3		
B8	Breast tissue	2	C	3	2	C	3		
B9	Infiltrating ductal carcinoma not otherwise specified (NOS)	1	C	0	2	C	3		
B10	Breast tissue	1	C	0			0		
C1	Infiltrating ductal carcinoma not otherwise specified (NOS)	3	C	4	3	C	4		Ducts
C2	Breast tissue	3	C	3	3	C	4		
C3	Infiltrating ductal carcinoma not otherwise specified (NOS)	2	C	3	2	C	4		
C4	Breast tissue	3	C	4	3	C	4		
C5	Infiltrating ductal carcinoma not otherwise specified (NOS)	4	C	3			0		
C6	Breast tissue	3	C	4	2	C,N	4		
C7	Infiltrating ductal carcinoma not otherwise specified (NOS)	3	C	3	1	C	3		
								Mostly myoepithelial type cells are positive.	

C8	Breast tissue	2	C	4	1	C	4	
C9	Canalicular carcinoma	1	C	1	1	C	0	
C10	Breast tissue	2	C	4	1	C	2	
D1	Infiltrating ductal carcinoma not otherwise specified (NOS)			0			0	
D2	Breast tissue	1	C	2	1	C	2	
D3	Infiltrating ductal carcinoma not otherwise specified (NOS)	1	C	0	1	C	0	
D4	Breast tissue	2	C	4	2	C	4	
D5	Infiltrating ductal carcinoma not otherwise specified (NOS)	1	C	3	4	C	4	
D6	Breast tissue	2	C	3	1	C	1	
D7	Infiltrating ductal carcinoma not otherwise specified (NOS)	1	C	0	1	C	0	
D8	Breast tissue	3	C	4	2	C	4	
D9	Infiltrating ductal carcinoma not otherwise specified (NOS)			0			0	
D10	Breast tissue	3	C	4	2	C	4	
E1	Infiltrating ductal carcinoma not otherwise specified (NOS)	1	C	0			0	
E2	Breast tissue							One small tag of epithelium.
E3	Infiltrating ductal carcinoma not otherwise specified (NOS)	1	C	0	3	C	1	
E4	Breast tissue	1	C,N	4	1	C	3	
E5	Infiltrating ductal carcinoma not otherwise specified (NOS)	2	C	2	2	C	3	Myoepithelial type cells and carcinoma cells are positive.
E6	Breast tissue	3	C	4	2	C	3	
E7	Infiltrating ductal carcinoma not otherwise specified (NOS)	2	C	3	3	C	3	Myoepithelial type cell and carcinoma cells are positive.
E8	Breast tissue	2	C	4	1	C	2	
E9	Infiltrating ductal carcinoma not otherwise specified (NOS)	4	C	4	4	C	4	
E10	Breast tissue	2	N	4	2	N	4	
F1	Infiltrating ductal carcinoma not otherwise specified (NOS)	2	C	3	3	C	3	
F2	Breast tissue	1	C	1	1	C	2	
F3	Infiltrating ductal carcinoma not otherwise specified (NOS)	2	C	4	3	C,N	4	
F4	Breast tissue	3	C	4	3	C,N	4	
F5	Infiltrating ductal carcinoma not otherwise specified (NOS)	3	C	2	2	C	4	

F6	Breast tissue	3	C	4	3	C	4	
F7	Infiltrating ductal carcinoma not otherwise specified (NOS)	2	C	4	3	C	4	
F8	Breast tissue	2	C	4	2	C,N	4	
F9	Infiltrating ductal carcinoma not otherwise specified (NOS)			0	2	C	2	
F10	Breast tissue	1	C	0	1	C	2	
G1	Infiltrating ductal carcinoma not otherwise specified (NOS)	2	C	2	4	C	4	
G2	Breast tissue	3	C	4	2	C	4	
G3	Infiltrating ductal carcinoma not otherwise specified (NOS)	1	C	0			0	
G4	Breast tissue	2	C	4			0	
G5	Infiltrating ductal carcinoma not otherwise specified (NOS)	2	C	1	2	C	1	
G6	Breast tissue	3	C	4	4	C	4	
G7	Infiltrating ductal carcinoma not otherwise specified (NOS)	2	C	2	4	C	2	
G8	Breast tissue	3	C	4	2	C,N	4	
G9	Infiltrating ductal carcinoma not otherwise specified (NOS)	3	C	3	2	C	4	
G10	Breast tissue	2	C	2	2	C	4	
H1	Infiltrating ductal carcinoma not otherwise specified (NOS)	3	C	3	1	C	3	
H2	Breast tissue	2	C	4	2	C	4	Duct
H3	Infiltrating ductal carcinoma not otherwise specified (NOS)	2	C	2	3	C	3	
H4	Breast tissue	3	C	4	3	C,N	4	
H5	Infiltrating ductal carcinoma not otherwise specified (NOS)			0	3	C	2	Myoepithelial type cells are positive, carcinoma cells negative.
H6	Breast tissue	2	C	4	3	C,N	4	
H7	Infiltrating ductal carcinoma not otherwise specified (NOS)	1	C	0	1	C	2	
H8	Breast tissue	2	C	4			0	
H9	Infiltrating ductal carcinoma not otherwise specified (NOS)	2	C	1	2	C	2	
H10	Breast tissue	1	C	4	1	C	4	

a Staining intensity was graded subjectively on a scale of 0 to 4: 0 = negative for staining; 1 = minimal intensity; 2 = mild intensity; 3 = moderate intensity; 4 = marked intensity.

b Staining pattern was noted as N = nuclear, or C = cytoplasmic; more than one pattern could appear within a spot.

c Percent of cells with positive staining was noted as: 0 = <10% positive; 1 = 10-24% positive; 2 = 25-49% positive; 3 = 50-75% positive; 4 = 75-100% positive.

d Some spots per array was checked (reread) to assess reproducibility.