Immunohistochemical expression of fibronectin by stromal and epithelial cells in carcinoma of the female breast

Thesis

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LIST OF ABBREVIATIONS

ACC	Acinic cell carcinoma
ADH	Atypical ductal hyperplasia
AIs	Aromatase inhibitors
AJCC	American Joint Committee on Cancer
AKT	Serine/threonine kinase
ALDH1	Aldehyde dehydrogenase
ALH	Atypical lobular hyperplasia
AMC	Atypical medullary carcinomas
AR	Androgen receptor
ATM	Ataxia Telangiectasia mutant gene
BBD	Benign breast diseases
BC	Breast cancer
BCL2	B-cell Lymphoma-2
BM	Basement membrane
BMI	Body mass index
BRCA	Breast cancer gene
BTICs	Breast tumor initiating cancer cells
CAFs	Cancer associated fibroblasts
CBC	Contralateral breast cancer
CBS	Conservative breast surgery
CCL7	Chemokine ligand 7
CDH1	Epithelial cadherin
CHEK2	Check point kinase 2
CK	Cytokeratin
COX2	Cyclo-oxygenase 2
CSC	Cancer stem cells
CXCL12	Chemokine ligand 12
DAB	Diaminobenzidine
DCIS	Ductal carcinoma insitu

DFS	Disease free survival
DM	Diabetes mellitus
DNA	Deoxyribonucleic Acid
DTCs	Disseminated tumor cells
E-cadherin	Epithelial-cadherin
ECM	Extracellular matrix
EDA, EDB	Extra domain-A, Extra domain-B
E-FN	Epithelial fibronectin
EGFR	Epidermal growth factor receptor
EMA	Epithelial membrane antigen
EMT	Epithelial-mesenchymal transition
ER	Estrogen receptor
ERK 1/2	Extracellular signal-regulated kinase 1/2
EU	European Union
FAK	Focal adhesion kinase
FEA	Flat epithelial atypia
FGF	Fibroblast growth factor
FLSpCC	Fibromatosis-like spindle-cell metaplastic carcinoma
FN	Fibronectin
FOX	Forkhead box
GCDFP- 15	15-kDa Glycoprotein of cystic breast disease
GSC	Homeobox protein goosecoid
GSK-3b	Glycogen synthase kinase-3b
GTPase	Guanosine triphosphatase
H/ E (Spl)	Hairy and enhancer of split
HCG	Human Chorionic Gonadotropin
HER2	Human Epidermal growth factor receptor 2
HGF	Hepatocyte growth factor
HIF1α	hypoxia-inducible factor-1α
HPF	High Power field

HRT	Hormone replacement therapy
IBC	Inflammatory breast cancer
IBIS	International breast cancer intervention
ICC	Invasive cribriform carcinoma
IDC-NOS	Invasive ductal carcinomas not otherwise specified
IDC-NST	Invasive ductal carcinomas no special type
IGF-1	Insulin-like growth factor-I
IHC	Immunohistochemistry
IL	Interleukin
ILC	Invasive lobular carcinoma
ILK	Integrin-linked kinase
IMPC	Invasive micropapillary carcinoma
IS	Immunoreactivity score
ITGA6	Alpha 6 integrin gene
JAK	Janus kinase
L.N.s	Lymph nodes
LCIS	Lobular carcinoma insitu
LGAS	Low-grade adeno-squamous carcinoma
LN	Lobular neoplasia
LNR	Lymph node ratio
LOXs	Lysyl oxidases
LTBP-1	Latent Transforming Growth Factor-β binding protein-1
LVI	Lymphovascular invasion
MAPK	Mitogen-associated protein kinase
MBC	Metaplastic breast carcinomas
MC	Medullary carcinoma
MD	Mammographic density
MEC	Mucoepidermoid carcinoma
MET	Mesenchymal–epithelial transition
MIC	Mononuclear inflammatory cell
MMP	Matrix metalloproteinases

MRI	Magnetic resonance imaging
MRM	Modified radical mastectomy
MSCs	Mesenchymal stem cells
nBSCs	Normal breast stem cells
N-cadherin	Neural cadherin
NE	Neuroendocrine
nF-κB	Nuclear factor-κb
NGS	Nottingham Grading System
NPD	Non-proliferative disease
OC	Oncocytic carcinoma
OCPs	Oral contraceptive pills
OGCs	Osteoclast-like stromal giant cells
OS	Overall survival
PALB2	Partner and localizer of BRCA2
PAS	Periodic acid–Schiff
PD	Proliferative disease
PDGF	Platelet-derived growth factor
PI3K	Phosphatidylinositol-3-kinase
PLCIS	Pleomorphic lobular carcinoma insitu
PR	Progesterone receptor
PRL	Prolactin
PTEN	Phosphate and tensin homology
RhoA	Ras homolog gene family
RNA	Ribonucleic acid
RTKs	Receptor tyrosine kinases
RT-PCR	Reverse Transcription–Polymerase Chain Reaction
SC	Sebaceous carcinoma
SCBC	Spindle cell breast carcinoma
SCC	Squamous cell carcinoma
SD	Standard deviation

SERMs	Selective estrogen receptor modulators
S-FN	Stromal Fibronectin
SHBG	Sex hormone binding globin
SPSS	Statistical Package for the Social Science
SRCC	Signet ring cell carcinoma
STAT3	Signal transducer and activator of transcription 3
TAMs	Tumor-associated macrophages
TC	Tubular carcinoma
TCF3	Transcription Factor 3
TGF-β	Transforming growth factor-β family
TLR	Toll-like receptor
TN	Triple Negative
TNF- α	Tumor necrosis factor-α
TNM	Tumor – Nodes - Metastasis.
TP53	Tumor protein 53
UDH	Usual ductal hyperplasia
UK RCPath	Royal College of Pathologists
VEGF	Vascular endothelial growth factor
WHO	World health organization
ZEB	Zinc-finger E-box-binding homeobox

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