

**IMMUNOHISTOCHEMICAL EXPRESSION OF
MASPIN AND MCM-2 IN MALIGNANT
SALIVARY GLAND TUMORS**

Thesis

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

*To my family,
Great parents and lovely sisters
Who gave me all the possible time,
support and love I needed*

*To all who will read this one day and
find it useful,
Thank you for your time and trust*

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List of Abbreviations

ADCC : Adenoid Cystic Carcinoma
ACCC: Acinic Cell Carcinoma
AdWT P53 : Adenovirus Wild Type P53
ANOVA: Analysis Of Variance
AP-1 : Activator Protein- 1
APC/C: Anaphase Promoting Complex/Cyclosome
bFGF: basic Fibroblast Growth Factor
CAK: Cyclin- Dependent Kinase Activating Kinase
CCL 20: Chemokine (C-C motif) Ligand 20
Cdc 42: cell division control 42
CDK: Cyclin- Dependent Kinase
Cdc 25: Cell division cycle 25
Cdc 6: Cell division cycle 6
Cdc 45: Cell division cycle 45
Cdc 28: Cell division control 28
CK18 : Cytokeratin 18
COX-2: Cyclooxygenase- 2
CXCL2: Chemokine (C-X-C motif) Ligand 2
DDK: DbF4-Dependent Kinase
DAB: Diamino Benzidine
DNA: Deoxyribonucleic Acid
Emi 1: Early mitotic inhibitor 1

ECM: Extracellular Matrix
ERK1/2: Extracellular signal-Regulated Kinase 1 and 2
FAP: Focal Adhesion Plaques
GSH: Glutathione
GTPase : Guanosine Triphosphate
GST: Glutathione S-transferase
GPX : Glutathione Peroxidase
G0: Resting phase of cell cycle
G1: Gap 1 phase of cell cycle
G2: Gap 2 phase of cell cycle
H&E : hematoxylin and eosin
H DAC1: Histone Deacetylase 1
HIER: Heat Induced Epitope Retrieval
IRF6: Interferon Regulatory Factor 6
IL-1 : Interleukin-1
IL-6: Interleukin-6
INK- 4: Inhibitor of Cyclin - Dependent Kinase 4
KIP: Kinase Inhibitor Protein
LIM-Kinase: Lin11/ Isl-1/ Mec-3 - Kinase
MEC: Mucoepidermoid Carcinoma
Maspin: Mammary Serine Protease Inhibitor
MCM2 : Minichromosome Maintenance 2
MMPs: Matrix Metalloproteinase
MLC: Myosin Light Chain

MLCK: Myosin Light Chain Kinase
M: Mitosis phase of cell cycle
NO: Nitric Oxide
ORC: Origin Recognition Complex
Ov-Serpins: Ovalbumin Serpin
PLGA: Polymorphous Low-Grade Adenocarcinoma
PAI2 : Plasminogen Activator Inhibitor 2
Pre -RC: Pre-Replicative Complex
PBS: Phosphate Buffered Saline
PAS: Periodic Acid-Schiff
PAK1 : P21 Activated Kinase 1
rMaspin: recombinant Maspin
redox system : reduction-oxidation system
ROS: Reactive Oxygen Species
RSL : Reactive Site Loop
RPA: Replication Protein A
Serpin: Serine protease inhibitor
SDC: Salivary Duct Carcinoma
SCCA1: Squamous Cell Carcinoma Antigen 1
SCCA2: Squamous Cell Carcinoma Antigen 2
STS : Staurosporine
SPSS: Statistical Package for Social Science
S phase: Synthesis phase of cell cycle
SCF: Skp1/Cul1/F-boX

TAM : Tamoxifen

TF: Transcription Factor

Thr 14: Threonine 14

Tyr 15: Tyrosine 15

uPA : urokinase Plasminogen activator

uPAR: urokinase Plasminogen activator Receptor

VEGF: Vascular Endothelial Growth Factor

WHO: World Health Organization

Wt p53: Wild-type p53

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