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The actin cytoskeleton and the nuclear translocation of -catenin in human oesophageal squamous carcinoma cell lines

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List of Symbols

α alpha

β beta

γ gamma

List of Abbreviations

Abs	the absorbance
activator protein-1	AP-1
ADP	Adenosine diphosphate
ATP-	Adenosine triphosphate
APC	Adenomatous polypsis coli
ARM	Armadillo
BLAST	Basic Local Alignment Search Tool
bp	base pairs
Brg1	Brahma related gene-1
BSA	Bovine serum albumin
Ca^{2+}	Calcium
CBP	CREB-binding protein
Cdc42	Cell division cycle 42
CK	Casein Kinase
cm	centimeter
CREB	Camp response element-binding protein 1
CRM-1	Chromosome maintenance region-1
C-terminal	Carboxyl-terminal
cytoD	Cytochalasin D
DEAE	diethylaminoethyl
dH_2O	distilled water
DKK	Dickkopf
DMSO	Dimethyl sulphoxide
dNTP	nucleotides
dvl	dishevelled
E.coli	*Escherichia coli*
E/GRE	ecdysone/glucocorticoid responsive element recognition sequence
EC	Extracellular
E-cadherin,	Epithilial-cadherin

EcBR	Ecdysone binding receptor
ECM	Extracellular matrix
EDTA	Ethylenediaminetetra-acetic acid
EGF	Epidermal growth factor
EGF-R	EGF-receptor
EGR-1	Early growth response-1
ERK	Extracellular signal-related kinase
F-actin	Filamentous actin
FAK	Focal adhesion kinase
Fer	Fps/fes-related tyrosine kinase
x *g*	times gravity
G418	G418 sulphate
G-actin	Globular actin
GAPDH	glyceraldehyde-3-phosphate dehydrogenase
GDP	Guanosine 5′-diphosphate
GFP	green fluorescence protein
GSK-3β	glycogen synthase kinase-3β
GTP	Guanosine 5′-triphosphate
HCl	Hydrochloric acid
HMG	High mobility group
HOSCC	Human oesophageal squamous cell carcinoma
ICAT	Inhibitor of β-catenin and TCF
ILK	Integrin linked kinase
IQGAP1	IQ motif-containing GTPase-activating protein 1
JNK	c-jun N-terminal protein kinase
kb	kilobase-pairs
kDa	kilo-Daltons
L	litre
LA	Luria agar
LB	Luria broth
LEF/TCF	Lymphoid enhancer factor/T-cell factor
mA	milli-Amps

MCS	Multiple cloning site
min	minutes
mM	milli-molar
mm	millimetre
MMP	Matrix metalloproteases
MUC1	MUCIN 1
MWM	Molecular weight markers
N-cadherin	Neuronal-cadherin
NE	Nuclear envelope
NES	Nuclear export signals
NF-κB	Nuclear factor-kappa B,
ng	nano-grams
NLS	Nuclear localisation signal
nm	nano-meters
NPB	Nuclear preparation buffer
NPC	Nuclear pore complex
N-terminal	Amino-terminal
ORF	Open reading frame
p53	tumour protein 53
p85	Phosphoprotein 85
PBS	Phosphate Buffer Saline
P-cadherin	Placental-cadherin
PCR	Polymerase chain reaction
Pi	Phosphate
PI3-K	Phosphoinositide-3-kinase
Pin1	Propyl isomerase
PKC	Protein kinase C
pmols	pico-mols
ponA	Ponasterone A
PTEN	Phosphatase and tensin homolog
PTP	Tyrosine phosphatase
R2	Linear regression

Rac1	Ras-related c3 botulinum toxin substrate 1;
rpm	revolutions per minute
RxR	retenoid-x-receptors,
SCC	squamous cell carcinoma
SDS-PAGE	sodium dodecyl sulphate-polyacrylamide gel electrophoresis
sec	second
Siah1	Seven in absentia, drosophila, homolog of, 1
SIP	Siah interacting protein
Skp1	S-phase kinase-associated protein 1
SP1	specificity protein-1
SV40	Simian Virus 40
TAE	Tris-Acetate-EDTA
Taq	*Thermus aquaticus*
TB	Transformation buffer
TBP	TATA binding protein
TCA	trichloroactic acid
TE	Tris-EDTA
TEMED	N,N,N'N'-tetramethylenediamine
β-TrCP	β-transducin repeat-containing protein
U	units
uPA	Urokinase type plasminogen activator
WGA	Wheat germ agglutinin
wnt	wingless-type
μg	micro-gram
μl	micro-litres
μM	micro-molar