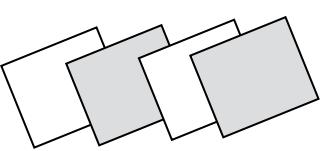
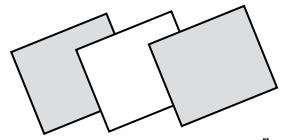


منابع





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Abbreviations

ACE: Angiotensin 1 Converting Enzyme

ACTN3: Alpha Actinin 3, Alpha-Actinin Skeletal Muscle Isoform 3 or F-actin Cross-linking Protein

(ADRB2: beta-2 adrenergic receptor (β_2 adrenoreceptor

(Akt: Protein Kinase B (PKB

AIF: Apoptosis Inducing Factor AMP: Adenosine monophosphate

AMPA: α -Amino-3-hydroxy-5-Methylioxazole-4-Propionic Acid

AMPD1: AMP deaminase 1

AP-1: activator protein 1

Apaf-1: Apoptotic protease activation factor-1

ApoE: Apolipoprotein E

ATP: Adenosine Triphosphate

ATP1A2: ATPase, Na⁺/K⁺ transporting, alpha 2 (+) polypeptide

Bcl-2: B-cell lymphoma 2

BDKRB2: Bradykinin receptor B₂

BH: Bcl-2 Homology

BID: BH3 interacting-domain death agonist

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BsmI: *Bacillus stearothermophilus* NUB

BIR: Baculovirus IAP Repeat

CAD: Caspase-Activated Deoxyribonuclease

(CaM: Calmodulin (an abbreviation for CALcium-MODULated protein

cAMP: Cyclic adenosine monophosphate

Caspase Recruitment Domain :CARD

CBP: CREB-binding protein

CDC42: Cell division control protein 42 homolog

CKMM: creatine kinase, muscle, MM-CK

cGMP: Cyclic guanosine monophosphate

CNTF: Ciliary Neurotrophic Factor

COX: Cyclooxygenase

CREB: cAMP response element-binding protein

Crm A: Cytokine response modifier A

DAG: diacyl-glycerol

DED: Death Effector Domain

DFFA: DNA fragmentation factor subunit alpha

Dexa: Dexamethasone

DHPR: Dihydropyridine Receptor

DISC: Death-Inducing Signaling Complex

DNA: Deoxyribonucleic acid

4E-BP1: Eukaryotic Initiation Factor 4E-Binding Protein

EDTA: EthyleneDiaminetetraacetic acid eIF2B: Eukaryotic Initiation Factor 2B

eNOS: endothelial Nitric Oxide (NO) Synthase

EPAS1: Endothelial PAS domain-containing protein 1 (also known as Hypoxia-inducible

((factor-2alpha (HIF-2alpha

ER: Endoplasmic Reticulum

ERK: Extracellularly Regulated Kinase

FADD: Fas-Associated Death Domain

FAK: Focal Adhesion Kinase

FK-506: Tacrolimus (or fujimycin, trade names Prograf, Advagraf, Protopic)



FoxO: Forkhead box O

GABA: γ -Aminobutyric acid

GAP: GTPase Activating Protein

GASP: G-protein coupled receptor-associated sorting protein 1

GDF-8: Myostatin, Growth Differentiation Factor 8

GEF: Guanine nucleotide Exchange Factor

GLUT4: Glucose transporter type 4

GrB: Granzyme B

GSK3 β : Glycogen Synthase Kinase 3 β

GTP: Guanosine-5'-triphosphate

HDAC: Histone deacetylases

HFE: Human hemochromatosis protein

HIF α : Hypoxia Inducible Factor α

(HLA-A: is a group of human leukocyte antigens (HLA

HMGC COA: HMG-CoA reductase (or 3-hydroxy-3-methyl-glutaryl-CoA
reductase or HMGCR)

HSF: Heat shock factor

HSP: Heat shock proteins

IAP: Inhibitor of Apoptosis Protein

ICAD: Inhibitor of Caspase-Activated Deoxyribonuclease IGF-1: Insulin-like growth
factor 1

IL-15R: Interleukin-15 Receptor

Ipaf: Interleukin-1 β -converting-enzyme Protease-activating Factor

IRS-1: Insulin Receptor Substrate-1

JNKs: c-Jun N-terminal kinases

LPA: Lysophosphatidic acid

MAPK: Mitogenic Activated Protein Kinase

MARCKS: MMyristoylated alanine-rich C-kinase substrate

Mef2: myocyte enhancer factor-2

MEK: MAP/ERK Kinase

MEKK: MEK Kinase

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- MLCK: Myosin light-chain kinase also known as MYLK
- Mos: Proto-oncogene serine/threonine-protein kinase mos
- MPTPs: Mitochondrion Permeability Transition Pores
- MRF: Myogenic regulatory factors
- mRNA: Messenger RNA
- mtDNA: Mitochondrial DNA
- mTOR: Mammalian Target of Rapamycin; MT-TT: Mitochondrially encoded tRNA threonine
- MURF: Muscle Ring Finger
- NAIP: Neuronal Apoptosis Inhibitory Protein
- NFAT: Nuclear factor of activated T-cells
- NF-κB: (nuclear factor kappa-light-chain-enhancer of activated B cells)
- NLRs: nucleotide-binding oligomerization domain receptors
- NMDA: N-methyl-D-aspartate
- NO: Nitric oxide, or nitrogen oxide,^[2] also known as nitrogen monoxide
- NOD-LRR: Nucleotide-binding Oligomerization Domain-Leucine-Rich Repeat
- NOSs: Nitric oxide synthases
- NRF: Nuclear respiratory factor
- NSAID: Non-Steroidal Anti-Inflammatory Drug
- PARP: Poly (ADP-ribose) Polymerase
- PDK1: 3'-Phosphoinositide-Dependent Protein Kinase 1
- PDGF: platelet-derived growth factor
- PKA: Protein kinase A
- PKC: Protein kinase C
- PGC-1 α : Peroxisome proliferator-activated receptor gamma coactivator 1-alpha
- PI3K: Phosphatidylinositol-3-OH Kinase
- PIP3: Phosphatidylinositol-Triphosphate
- PIP2: Phosphatidylinositol-Biphosphate
- PPARA: Peroxisome proliferator-activated receptor alpha (PPAR-alpha), also known as NR1C1
- PtdIns: Phosphatidylinositol



p70S6K: 70-kDa Ribosomal Protein S6 Kinase

Rac: Ras-related C3 botulinum toxin substrate 1

RIP: Receptor-Interacting Protein

fragment length polymorphism RFLP: Restriction

Rheb: Ras homologue enriched in brain

RNA: Ribonucleic acid

ROS: Reactive Oxygen Species

RyRs: Ryanodine receptors

S6K: Ribosomal Protein S6 Kinase

Shc: Src homology 2 domain-containing

SOD: Superoxide dismutase 2, mitochondrial

SNP: Single Nucleotide Polymorphism

SRF: Serum response factor

STAT: Signal Transducer and Activator of Transcription

TGF- β : Transforming growth factor beta

Tfam: Mitochondrial transcription factor A

TNF: Tumor Necrosis Factor

TNNT3: Fast Skeletal Muscle Troponin T

TRADD: TNFR-Associated Death Domain

TSC2: Tuberous Sclerosis Complex 2

RNA: Ribonucleic acid

ROS: Reactive Oxygen Species

.rpS6: Ribosomal Protein S6

UCP2: Mitochondrial uncoupling protein 2

VCAM-1: Vascular Cell Adhesion Molecule- 1

VDR: Vitamin D Receptor

VEGF: Vascular endothelial growth factor

VO₂ max: Maximal Oxygen Consumption, Maximal Oxygen Uptake, Peak Oxygen

Uptake or Aerobic Capacity

XIAP: X-linked mammalian inhibitor of apoptosis protein