



# Recombinant Rat Peroxisome proliferator-activated receptor gamma coactivator 1-alpha (Ppargc1a)

|                          |   |
|--------------------------|---|
| <b>Product Code</b>      | CSB-YP889889RA  |
| <b>Abbreviation</b>      | Ppargc1a  |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.  |
| <b>Uniprot No.</b>       | Q9QYK2  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)   |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | MAWDMCSQDS VWSDIECAAL VGEDQPLCPD LPELDLSELD VNDLDTDSFL<br>GGLKWCSQDS EIISNQYNNE PANIFEKIDE ENEANLLAVL TETLDSL PVD<br>EDGLPSFDAL TDGDVTTDNE ASPSSMPDGT PPPQEAEEPS LLLKLLLAPA<br>NTQLSYNECS GLSTQNHANH THRIRTNPAI VKTENSWSNK AKSICQQQKP<br>QRRPCSELLK YLTTNDDPPH TKPTENRNSS RDKCASKKKS HTQPQSQHAQ<br>AKPTTSLPL TPESPNDPKG SPFENKTIER TLSVELSGTA GLTPPTTPPH<br>KANQDNPFKA SPKLPSCKT VVPPPTKRAR YSECSGTQGS HSTKKGPEQS<br>ELYAQLSKSS VLSRGHEERK TKRPSLRLFG DHDYCQSVNS KTDILINISQ<br>ELQDSRQLDF KDASCDWQGH ICSSTDSSQC YLRETLEASK QVSPCSTRKQ<br>LQDQEIRAEL NKHFGHPSQA VFDDKVDKTS ELRDGNFSNE QFSKLPVFIN<br>SGLAMDGLFD DSEDENDKLS YPWDGTQSYS LFDVSPSCSS FNSPCRDSVS<br>PPKSLFSQRP QRMRSRSRSF SRHRSCSRSP YSRRSRSPG<br>SRSSSRSCYY YESSHYRHRT HRNSPLYVRS RSRSPYSRRP RYDSYEANEH<br>ERLKRDEYRR EYEKRESERA KQRERQKQKA IEERRVIYVG KIRPDTRTE<br>LRDRFEVFG EIECTVNLRD DGDSYGFITY RYTCDAFAAL ENGYTLRRSN<br>ETDFELYFCG RKQFFKSNYA DLDSNSDDFD PASTKSKYDS LDFDSSLKEA<br>QRSLRR |
| <b>Source</b>            | Yeast   |
| <b>Target Names</b>      | Ppargc1a  |
| <b>Protein Names</b>     | Recommended name: Peroxisome proliferator-activated receptor gamma coactivator 1-alpha Short name= PGC-1-alpha Short name= PPAR-gamma coactivator 1-alpha Short name= PPARGC-1-alpha  |
| <b>Expression Region</b> | 1-796   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |



|                       |  |
|-----------------------|--|
| <b>Protein Length</b> | full length protein  |
| <b>Target Details</b> | <p>This protein is a transcriptional coactivator that regulates the genes involved in energy metabolism. This protein interacts with PPARgamma, which permits the interaction of this protein with multiple transcription factors. This protein can interact with, and regulate the activities of, cAMP response element binding protein (CREB) and nuclear respiratory factors (NRFs). It provides a direct link between external physiological stimuli and the regulation of mitochondrial biogenesis, and is a major factor that regulates muscle fiber type determination. This protein may be also involved in controlling blood pressure, regulating cellular cholesterol homeostasis, and the development of obesity.</p> |
| <b>Reconstitution</b> | <p>We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.</p>   |
| <b>Shelf Life</b>     | <p>The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.</p>   |