



# Recombinant Rat Transcription factor E2F1 (E2f1)

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| <b>Product Code</b>      | CSB-EP007340RA-B   |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.  |
| <b>Uniprot No.</b>       | O09139   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)  |
| <b>Purity</b>            | >85% (SDS-PAGE)  |
| <b>Sequence</b>          | MAVAPAGGQHAPALEALLGAGALRLLDSSQIVIISTAPDVGAPQVPTGPAAPPA<br>GPRDPDVLFFATPQAPRPAPSAPRPALGRPPVKRRLDLETDHQYLAGSSGPF<br>RGRGRHPGKGVKSPGKSRYETSLNLTTRKRFLELLSHSADGVVDLNWAAEVL<br>KVQKRRIYDITNVLEGIQLIAKSKNHIQWLGSRTMVGIGQRLEGLTQDLQQLQ<br>ESEQLDHLMHICTTQLQLLSESDIQRLAYVTCQDLRSIADPAEQMVIVIKAPP<br>ETQLQAVDSAETFQISLKSQGPIDVFLCPEESAEGISPGRTSYQETSGEDRNA<br>DSGTAGPPSPSTSTPLDPSQSLGLEQEAVLPRIGNLRAPMEEDRLSPLVA<br>ADSLLEHVKEDFSGLLPGEFISLSPHEAVDYHFGLEEGEGIRDLFDCDFGDLT<br>PLDF   |
| <b>Source</b>            | E.coli   |
| <b>Target Names</b>      | E2f1   |
| <b>Protein Names</b>     | Recommended name: Transcription factor E2F1 Short name= E2F-1  |
| <b>Expression Region</b> | 1-432  |
| <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>    | This protein is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins contain several evolutionally conserved domains found in most members of the family. These domains include a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein and another 2 members, E2F2 and E2F3, have an additional cyclin binding domain. This protein binds preferentially to retinoblastoma protein pRB in a cell-cycle dependent manner. It can mediate both cell proliferation and p53-dependent/independent apoptosis. |
| <b>Reconstitution</b>    | 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.

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### Shelf Life

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.