

Recombinant Human E2F1, GST-tagged

Cat. No. E2F1-12245H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human E2F1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength C-term-350a.a.

Description The protein encoded by this gene 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.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name E2F1 E2F transcription factor 1 [Homo sapiens]

Official Symbol E2F1

Synonyms E2F1; E2F transcription factor 1; RBBP3; transcription factor E2F1; RBP3; PBR3; RBAP-1; RBBP-3; PRB-binding protein E2F-1; retinoblastoma-binding protein 3; retinoblastoma-associated protein 1; E2F-1; RBAP1;

Gene ID 1869

mRNA Refseq NM_005225

Protein Refseq NP_005216

MIM 189971

UniProt ID Q01094

Chromosome Location 20q11

Pathway Activation of BH3-only proteins, organism-specific biosystem; Activation of NOXA and translocation to mitochondria, organism-specific biosystem; Activation of PUMA and translocation to mitochondria, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Apoptosis, organism-specific biosystem; Assembly of the pre-replicative complex, organism-specific biosystem; Association of licensing factors with

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the pre-replicative complex, organism-specific biosystem;

Function

DNA binding; DNA binding; core promoter binding; cyclin-dependent protein kinase activity; protein binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor acti

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