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℃. 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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