

Recombinant Human E2F3

Cat. No. E2F3-27375TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human E2F3 with N terminal proprietary tag, 40.74kDa.
Species	Human
Source	Wheat Germ
ProteinLength	133 amino acids
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, E2F1 and E2F2, have an additional cyclin binding domain. This protein binds specifically to retinoblastoma protein pRB in a cell-cycle dependent manner. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	40.740kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MQSGGGVKTTDDTSTLNSLCGYAWVYVWEEKQRCRLSSFFS SSASIPGLLPSTLD LVQNVGVVLDEALGWGRERELCVKC LLEMHCGVFSCMGNHLCQAFPHFPYLSHLV SCLCFQLCVI LFASCTKLIFSKV
Sequence Similarities	Belongs to the E2F/DP family.

GENE INFORMATION

Gene Name	E2F3 E2F transcription factor 3 [Homo sapiens]
Official Symbol	E2F3
Synonyms	E2F3; E2F transcription factor 3; transcription factor E2F3;
Gene ID	1871
mRNA Refseq	NM_001243076
Protein Refseq	NP_001230005
MIM	600427
Uniprot ID	O00716

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Chromosome Location	6p22
Pathway	Assembly of the pre-replicative complex, organism-specific biosystem; Association of licensing factors with the pre-replicative complex, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; CDC6 association with the ORC:origin complex, organism-specific biosystem;
Function	DNA binding; core promoter binding; cyclin-dependent protein kinase activity; protein binding; sequence-specific DNA binding transcription factor activity;

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