E2F1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	E2F1, Polyclonal Antibody
Full Product Name	E2F1 Antibody BIOTIN-Conjugated
Product Gene Name	anti-E2F1 antibody
Product Synonym Names	DmelCG6376; drosE2F1; E(Sev-CycE)3A; E(var)3-93E; Evar(3)164; l(3)07172; l(3)j3B1; l(3)j3C2; l(3)rM729; PBR 3; PRB binding protein E2F 1; RBAP 1; RBP 3; Retinoblastoma associated protein 1; Retinoblastoma binding protein 3; Transcription factor E2F1 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	BIOTIN-Conjugated
Concentration	0.65 ug/ul in antibody stabilization buffer (lot specific)
Preparation and Storage	-20• degree C for long term storage
Antibody/Peptide Pairs	E2F1 peptide (MBS543607) is used for blocking the activity of E2F1 antibody (MBS541450)
Molecular Weight	46,920 Da
OMIM	189971
3D Structure	ModBase 3D Structure for Q01094
Immunogen	Synthetic peptide corresponding to amino acids 58-93 of Human E2F1. Sequence: PCDPDLLLFATPQAPRPTPSAPRPALGRPPVKRRLD
Determinant	N-epitope
Molecular Function	DNA-binding; Apoptosis
Structure	Component of DRTF1/E2F transcription factor complex. Forms heterodimers with DP family members.
Subcellular Location	Nucleus
Applications Tested/Suitable for anti-E2F1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-E2F1 antibody	Dot Blot: 1:10,000 ELISA: 1:10,000 Western Blot: 1:1,000
Related Product Information for anti-E2F1 antibody	BIOTIN-Conjugated E2F transcription factor 1 Antibody N-epitope Transcription activator that binds DNA cooperatively with DP proteins through E2 recognition site
Other Notes	Small volumes of anti-E2F1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for E2F1 purchase	MBS541450 is an antibody targeting E2F1. Also known as E2F1 Antibody BIOTIN-Conjugated. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for E2F1. It may not necessarily be applicable to this product.

NCBI GI #	400928
NCBI GeneID	1869
NCBI Accession #	Q01094.1
UniProt Primary Accession #	Q01094
UniProt Secondary Accession #	Q13143; Q92768
UniProt Related Accession #	Q01094
GenBank Nucleotide #	NM_005225.2
NCBI Official Full Name	Transcription factor E2F1
NCBI Official Synonym Full Names	E2F transcription factor 1
NCBI Official Symbol	E2F1
NCBI Official Synonym Symbols	RBP3; E2F-1; RBAP1; RBBP3
UniProt Protein Name	Transcription factor E2F1
UniProt Synonym Protein Names	PBR3; Retinoblastoma-associated protein 1; RBAP-1; Retinoblastoma-binding protein 3; RBBP-3; pRB-binding protein E2F-1
Protein Family	Transcription factor
UniProt Gene Name	E2F1
UniProt Synonym Gene Names	RBBP3; E2F-1; RBAP-1; RBBP-3
UniProt Entry Name	E2F1_HUMAN
NCBI Protein Information	transcription factor E2F1
NCBI Summary for E2F1	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. [provided by RefSeq, Jul 2008]

UniProt Comments for E2F1	E2F1: a member of the E2F/DP 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. Binds DNA cooperatively with Dp transcription factors in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication.The Dp-1/E2F complex functions in the control of cell-cycle progression from G1 to S phase. The E2F-1 complex binds specifically hypophosphorylated retinoblastoma protein RB1. During the cell cycle, RB1 becomes phosphorylated in mid-to-late G1 phase, detaches from the DRTF1/E2F complex, rendering E2F transcriptionally active. Phosphorylated by CDK2 and cyclin A-CDK2 in the S-phase. It can mediate both cell proliferation and p53-dependent apoptosis. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 20q11.2 Cellular Component: mitochondrion; nuclear chromatin; nucleoplasm; nucleus; Rb-E2F complex Molecular Function: DNA binding; protein binding; protein kinase binding; sequence-specific DNA binding; transcription factor activity; transcription factor binding Biological Process: anoikis; DNA damage checkpoint; DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest; DNA damage response, signal transduction resulting in induction of apoptosis; forebrain development; mRNA stabilization; negative regulation of DNA binding; negative regulation of fat cell differentiation; negative regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; positive regulation of fibroblast proliferation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; regulation of transcription, DNA-dependent; spermatogenesis; transcription, DNA-dependent
Research Articles on E2F1	**1.** these data reveal a novel mechanism for the regulation of the expression of HIF2a, demonstrating that the HIF2a promoter is regulated by E2F1 directly and that Cezanne regulates HIF2a expression through control of E2F1 levels
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/e2f1/541450