E2F-2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	E2F-2, Polyclonal Antibody
Full Product Name	E2F-2 Conjugated Antibody
Product Gene Name	anti-E2F-2 antibody
Product Synonym Names	E2F-2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous level of total E2F-2 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	47,506 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (23832920..23857712, complement). Location: 1p36
OMIM	600426
3D Structure	ModBase 3D Structure for Q14209
Immunogen	Peptide sequence around aa.425~429 (L-F-D-S-Y) derived from Human E2F-2.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-E2F-2 antibody	Most Applications
Application Notes for anti-E2F-2 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-E2F-2 antibody	Transcription activator that binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3' found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication. The DRTF1/E2F complex functions in the control of cell-cycle progression from g1 to s phase. E2F-2 binds specifically to RB1 protein, in a cell-cycle dependent manner.
Other Notes	Small volumes of anti-E2F-2 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 E2F-2 purchase	MBS9438945 is an antibody targeting E2F-2. Also known as E2F-2 Conjugated Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for E2F-2. It may not necessarily be applicable to this product.

NCBI GI #	4758226
NCBI GeneID	1870
NCBI Accession #	NP_004082.1
UniProt Primary Accession #	Q14209
UniProt Secondary Accession #	Q7Z6H1; B2R9W1
UniProt Related Accession #	Q14209
GenBank Nucleotide #	NM_004091.3
NCBI Official Full Name	transcription factor E2F2
NCBI Official Synonym Full Names	E2F transcription factor 2
NCBI Official Symbol	E2F2
NCBI Official Synonym Symbols	E2F-2
UniProt Protein Name	Transcription factor E2F2
UniProt Gene Name	E2F2
UniProt Synonym Gene Names	E2F-2
UniProt Entry Name	E2F2_HUMAN
NCBI Protein Information	transcription factor E2F2
NCBI Summary for E2F-2	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 E2F3, have an additional cyclin binding domain. This protein binds specifically to retinoblastoma protein pRB in a cell-cycle dependent manner, and it exhibits overall 46% amino acid identity to E2F1. [provided by RefSeq, Jul 2008]
UniProt Comments for E2F-2	E2F2: Transcription activator that binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC- 3' found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication. The DRTF1/E2F complex functions in the control of cell-cycle progression from g1 to s phase. E2F2 binds specifically to RB1 in a cell-cycle dependent manner. Belongs to the E2F/DP family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 1p36 Cellular Component: nucleoplasm; transcription factor complex Molecular Function: protein binding; DNA binding; transcription factor activity; transcription factor binding Biological Process: transcription initiation from RNA polymerase II promoter; regulation of transcription, DNA-dependent; regulation of cell cycle; mitotic cell cycle
Research Articles on E2F-2	**1.** E2F1 and E2F2 genetic variants may jointly play important roles in head and neck squamous cell carcinoma
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