



Rabbit Anti-E2F2 antibody

SL1001R

Product Name:	E2F2
Chinese Name:	转录因子E2F-2抗体
Alias:	dE2F2; E2F-2; E2F2; E2F2_HUMAN; Transcription factor E2F2; E2F transcription factor 2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	48kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human E2F2:101-200/443
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	E2F/DP family winged-helix DNA-binding domain. This family contains the transcription factor E2F and its dimerisation partners TDP1 and TDP2, which stimulate E2F-dependent transcription. E2F binds to DNA as a homodimer or as a heterodimer in association with TDP1/2, the heterodimer having increased binding efficiency. The crystal structure of an E2F4-DP2-DNA complex shows that the DNA-binding domains of the E2F and DP proteins both have a fold related to the winged-helix DNA-binding

motif. Recognition of the central c/gGCGCg/c sequence of the consensus DNA-binding site is symmetric, and amino acids that contact these bases are conserved among all known E2F and DP proteins.

Function:

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.

Subunit:

Component of the DRTF1/E2F transcription factor complex. Forms heterodimers with DP family members. The E2F2 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. Viral oncoproteins, notably E1A, T-antigen and HPV E7, are capable of sequestering RB1, thus releasing the active complex. Binds EAPP.

Subcellular Location:

Nucleus.

Tissue Specificity:

Highest level of expression is found in placenta, low levels are found in lung. Found as well in many immortalized cell lines derived from tumor samples.

Post-translational modifications:

Phosphorylated by CDK2 and cyclin A-CDK2 in the S-phase (By similarity).

Similarity:

Belongs to the E2F/DP family.

SWISS:

Q14209, O00716

Gene ID:

1870

Database links:

[Entrez Gene: 1870](#)Human

[Entrez Gene: 242705](#)Mouse

[Omim: 600426](#)Human

[SwissProt: Q14209](#)Human

[SwissProt: P56931](#)Mouse

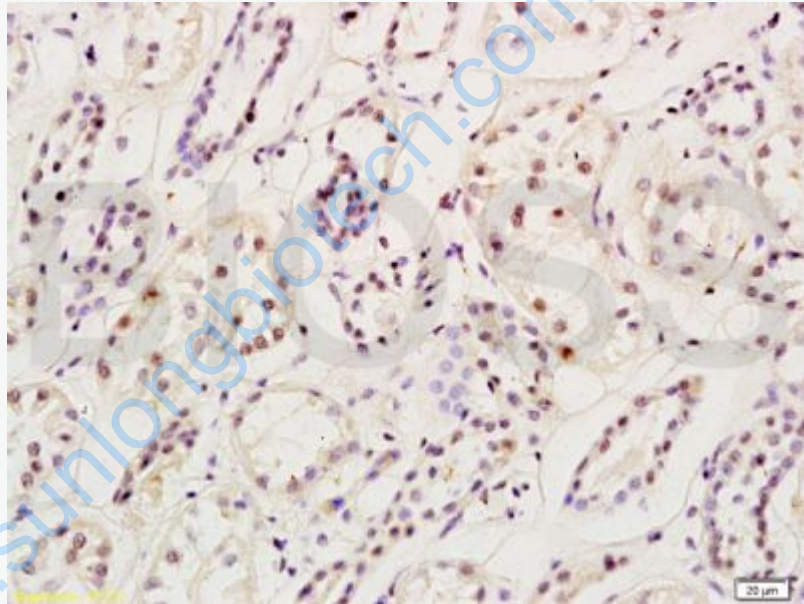
[Unigene: 194333](#)Human

[Unigene: 307932](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

transcriptional regulatory factor (Transcriptin Regulators)
E2F2(又称:TFE-25)—属于调节性转录因子E2F家族。



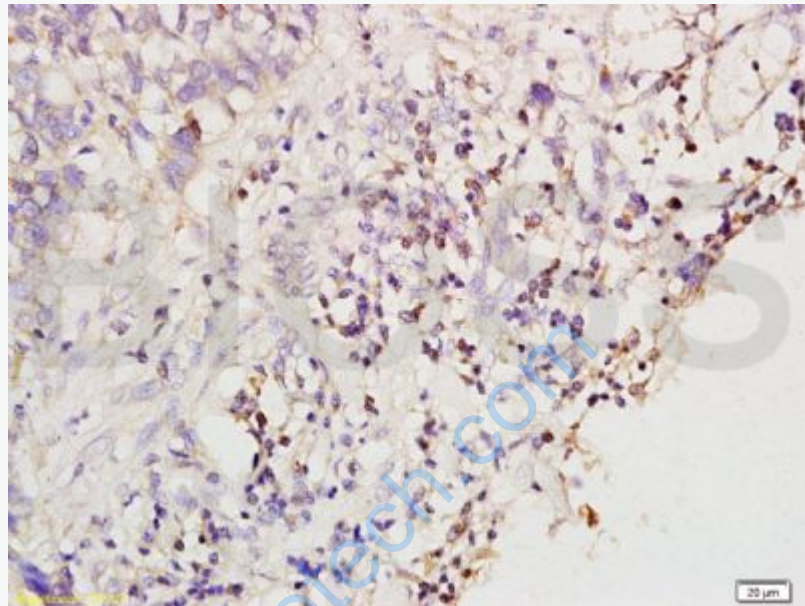
Picture:

Tissue/cell: human esophageal cancer; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-E2F2 Polyclonal Antibody, Unconjugated(SL1001R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and

DAB(C-0010) staining



Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

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