

E2F-2 Polyclonal Antibody

Catalog No :	YT1443
Depativity	LumaniMauaa
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	E2F-2
Fields :	>>Endocrine resistance;>>Cell cycle;>>Cellular senescence;>>Cushing syndrome;>>Hepatitis C;>>Hepatitis B;>>Human cytomegalovirus infection;>>Human T-cell leukemia virus 1 infection;>>Kaposi sarcoma- associated herpesvirus infection;>>Epstein-Barr virus infection;>>Pathways in cancer;>>MicroRNAs in cancer;>>Pancreatic cancer;>>Glioma;>>Prostate cancer;>>Melanoma;>>Bladder cancer;>>Chronic myeloid leukemia;>>Small cell lung cancer;>>Non-small cell lung cancer;>>Breast cancer;>>Hepatocellular carcinoma;>>Gastric cancer
Gene Name :	E2F2
Protein Name :	Transcription factor E2F2
Human Gene Id :	1870
Human Swiss Prot	Q14209
No : Mouse Gene Id :	242705
Mouse Swiss Prot	P56931
Immunogen :	The antiserum was produced against synthesized peptide derived from human E2F2. AA range:221-270
Specificity :	E2F-2 Polyclonal Antibody detects endogenous levels of E2F-2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000 IF 1:50-200



Bilrification ·	The antibody was affinity-purified from rabbit antiserum by affinity-
	chromatography using epitope-specific immunogen.
Concentration	1 mg/ml
Concentration.	
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	48kD
Cell Pathway :	Stem cell pathway: Cell Cycle G1S:Cell Cycle G2M DNA:
	Protein Acetylation
Background :	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
Function :	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. E2F-2 binds specifically to RB1 protein, in a cell-cycle dependent manner.,PTM:Phosphorylated by CDK2 and cyclin A-CDK2 in the S-phase.,similarity:Belongs to the E2F/DP family.,subunit:Component of the DRTF1/E2F transcription factor complex. Forms heterodimers with DP family members. The E2F-2 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 E1
Subcellular	Nucleus
	1401040.
Expression :	Highest level of expression is found in placenta, low levels are found in lung.
	round as well in many inmonalized cell lines derived from tumor samples.
Tag :	orthogonal
Sort :	813







Products Images

Western Blot analysis of various cells using E2F-2 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).

Western blot analysis of lysates from HepG2, K562, and COLO205 cells, using E2F2 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Small intestinal stromal tumor. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight.3,Secondary antibody was diluted at 1:200(room temperature, 45min).