Best Tools for immunology Research

# E2F-2 Polyclonal Antibody

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| **Catalog No :** | YT1443 |
| **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 No :** | Q14209 |
| **Mouse Gene Id :** | 242705 |
| **Mouse Swiss Prot No :** | 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 |

**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration :** 1 mg/ml

**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

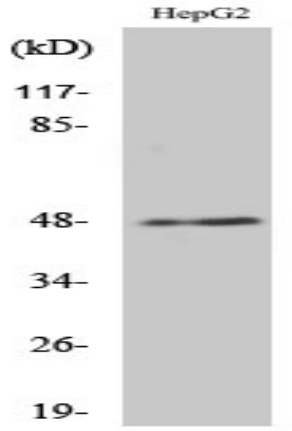
**Background :** The protein encoded by this gene is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins 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

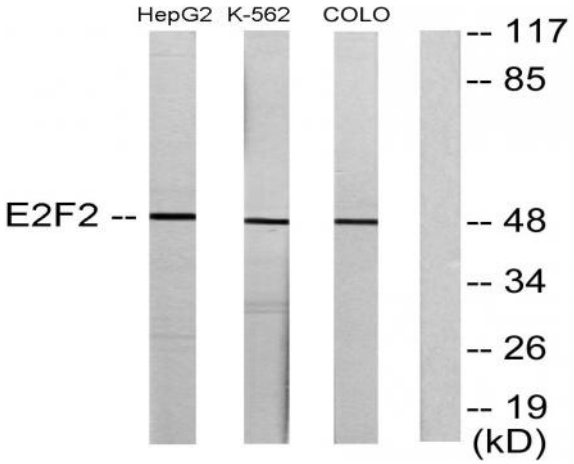
**Subcellular Location :** Nucleus.

**Expression :** 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.

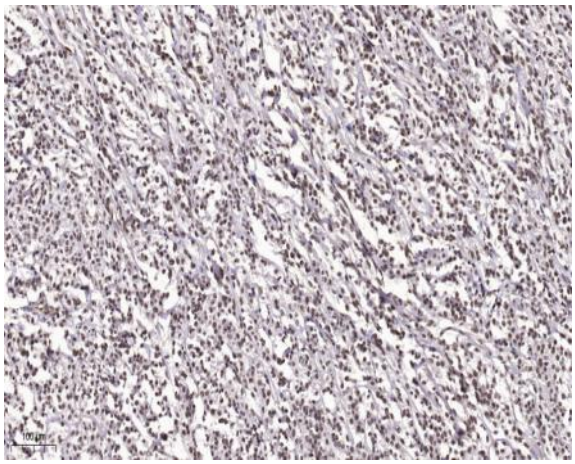
## Products Images




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).