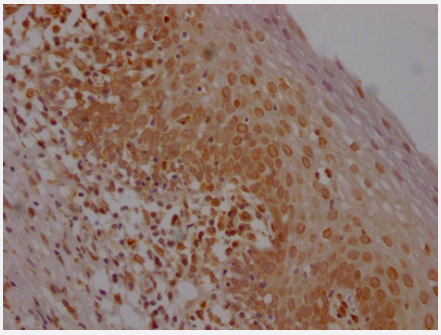
RecomAb™ Sm Size

# E2F1 recombinant monoclonal antibody, clone 1D12

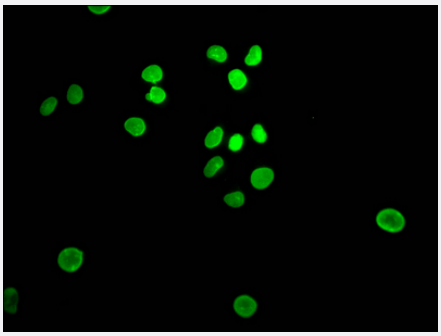
Catalog # RAB08093 Size 50 uL

## Applications



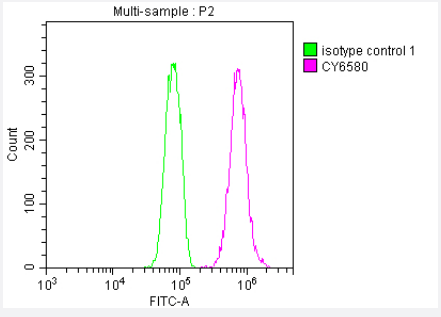
### Immunohistochemistry

Immunohistochemistry image of E2F1 recombinant monoclonal antibody, clone 1D12 diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed on a Leica Bond™ system.



### Immunofluorescence

Immunofluorescence staining of Hela Cells with E2F1 recombinant monoclonal antibody, clone 1D12 at 1:50, counter-stained with DAPI.




### Flow Cytometry

Overlay histogram showing Hela cells stained with E2F1 recombinant monoclonal antibody, clone 1D12 (red line) at 1:50.

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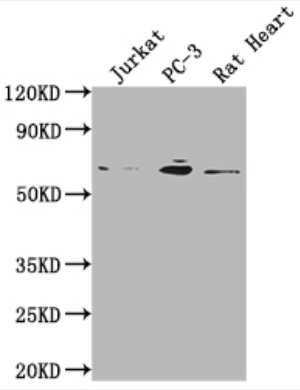


## Western Blot

Western Blot analysis of
Lane 1: Jurkat whole cell lysate;
Lane 2: PC-3 whole cell lysate; Lane3: Rat Heart tissue.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human and rat E2F1. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant protein corresponding to full length human E2F1. |
| **Reactivity** | Human, Rat |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Affinity-chromatography |
| **Isotype** | IgG |
| **Recommend Usage** | ELISA<br>Flow Cytometry (1:20-1:200)<br>Immunohistochemistry (1:50-1:200)<br>Immunofluorescence(1:20-1:200)<br>Western Blot (1:500-1:5000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide) |
| **Storage Instruction** | Store at -20 °C or -80 °C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

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## Applications

- Immunohistochemistry

  Immunohistochemistry image of E2F1 recombinant monoclonal antibody, clone 1D12 diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed on a Leica Bond™ system.

- Immunofluorescence

  Immunofluorescence staining of Hela Cells with E2F1 recombinant monoclonal antibody, clone 1D12 at 1:50, counter-stained with DAPI.

- Flow Cytometry

  Overlay histogram showing Hela cells stained with E2F1 recombinant monoclonal antibody, clone 1D12 (red line) at 1:50.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western Blot analysis of
  Lane 1: Jurkat whole cell lysate;
  Lane 2: PC-3 whole cell lysate; Lane3: Rat Heart tissue.

## Gene Info — E2F1

| | |
|---|---|
| **Entrez GeneID** | 1869 |
| **Protein Accession#** | Q01094 |
| **Gene Name** | E2F1 |
| **Gene Alias** | E2F-1, RBAP1, RBBP3, RBP3 |
| **Gene Description** | E2F transcription factor 1 |
| **Omim ID** | 189971 |
| **Gene Ontology** | Hyperlink |

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| | |
|---|---|
| **Gene Summary** | 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 s everal evolutionally conserved domains found in most members of the family. These domains incl ude a DNA binding domain, a dimerization domain which determines interaction with the different iation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic ami no acids, and a tumor suppressor protein association domain which is embedded within the trans activation domain. This protein and another 2 members, E2F2 and E2F3, have an additional cycli n binding domain. This protein binds preferentially to retinoblastoma protein pRB in a cell-cycle d ependent manner. It can mediate both cell proliferation and p53-dependent/independent apoptosi s. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000030661\|retinoblastoma-associated protein 1 |

## Pathway

- Bladder cancer
- Cell cycle
- Chronic myeloid leukemia
- Glioma
- Melanoma
- Non-small cell lung cancer
- Pancreatic cancer
- Pathways in cancer
- Prostate cancer
- Small cell lung cancer

## Disease

- Genetic Predisposition to Disease
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms

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