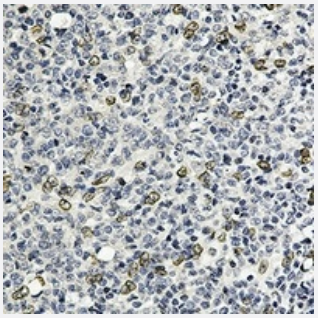
RecomAb™ Sm Size

E2F1 recombinant monoclonal antibody

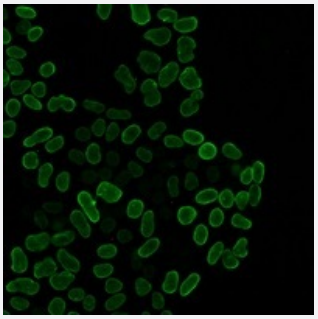
Catalog # RAB09159 Size 50 uL

Applications



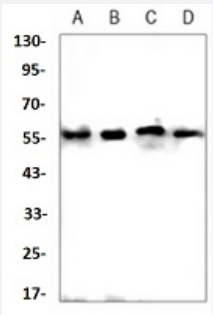
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of human tonsil formalin fixed paraffin embedded tissue section using E2F1 recombinant monoclonal antibody (Cat # RAB09159). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.120). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence

Immunofluorescent analysis of HeLa cells with E2F1 recombinant monoclonal antibody (Cat # RAB09159). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.



Western Blot (Cell lysate)

Western blot analysis of E2F1 expression in Lane 1: Molt4, Lane 2: C6, Lane 3: NIH3T3 whole cell lysates with E2F1 recombinant monoclonal antibody (Cat # RAB09159).

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Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human E2F1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide of human E2F1.
Theoretical MW (kDa)	70
Reactivity	Human, Mouse, Rat
Specificity	Recognizes endogenous levels of E2F1 protein.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Immunogen affinity chromatography
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:100) Immunofluorescence (1:50-1:100) Immunohistochemistry (1:50-1:100) Immunoprecipitation(1:10-1:50) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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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
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

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- 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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