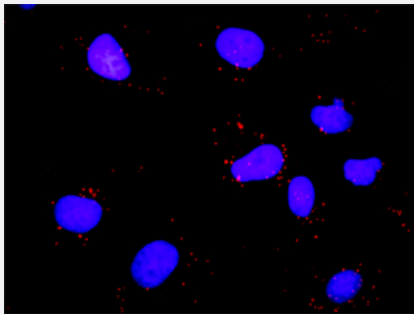


# MYBL2 & E2F1 Protein Protein Interaction Antibody Pair

Catalog # DI0186

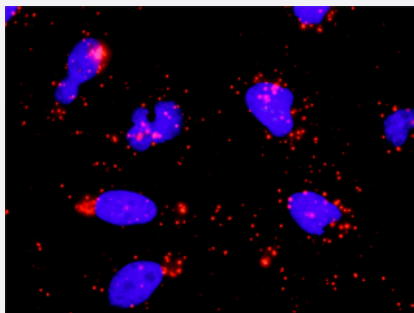
Size 1 Set

## Applications



### *In situ Proximity Ligation Assay (Cell)*

Representative image of Proximity Ligation Assay of protein-protein interactions between MYBL2 and E2F1. Mahlavu cells were stained with anti-MYBL2 rabbit purified polyclonal antibody 1:1200 and anti-E2F1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Representative image of Proximity Ligation Assay of protein-protein interactions between MYBL2 and E2F1. HeLa cells were stained with anti-MYBL2 rabbit purified polyclonal antibody 1:1200 and anti-E2F1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

## Specification

### Product Description

This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the MYBL2 protein, and the other against the E2F1 protein for use in [in situ Proximity Ligation Assay](#). [See Publication Reference below](#).

### Reactivity

Human

### Quality Control Testing

Protein protein interaction immunofluorescence result.

Representative image of Proximity Ligation Assay of protein-protein interactions between MYBL2 and E2F1. HeLa cells were stained with anti-MYBL2 rabbit purified polyclonal antibody 1:1200 and anti-E2F1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

**Supplied Product**

Antibody pair set content:

1. MYBL2 rabbit purified polyclonal antibody (100 ug)
2. E2F1 mouse monoclonal antibody (40 ug)

\*Reagents are sufficient for at least 30-50 assays using recommended protocols.

**Storage Instruction**

Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use.

## Applications

- *In situ* Proximity Ligation Assay (Cell)

Representative image of Proximity Ligation Assay of protein-protein interactions between MYBL2 and E2F1. Mahlavu cells were stained with anti-MYBL2 rabbit purified polyclonal antibody 1:1200 and anti-E2F1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

## Gene Info — E2F1

**Entrez GeneID**[1869](#)**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 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, E2F2 and E2F3, have an additional cyclin binding domain. This protein binds preferentially to retinoblastoma protein pRB in a cell-cycle dependent manner. It can mediate both cell proliferation and p53-dependent/independent apoptosis. [provided by RefSeq]

**Other Designations**

OTTHUMP00000030661|retinoblastoma-associated protein 1

## Gene Info — MYBL2

Entrez GeneID	<a href="#">4605</a>
Gene Name	MYBL2
Gene Alias	B-MYB, BMYB, MGC15600
Gene Description	v-myb myeloblastosis viral oncogene homolog (avian)-like 2
Omim ID	<a href="#">601415</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	The protein encoded by this gene, a member of the MYB family of transcription factor genes, is a nuclear protein involved in cell cycle progression. The encoded protein is phosphorylated by cyclin A/cyclin-dependent kinase 2 during the S-phase of the cell cycle and possesses both activator and repressor activities. It has been shown to activate the cell division cycle 2, cyclin D1, and insulin-like growth factor-binding protein 5 genes. Transcript variants may exist for this gene, but their full-length natures have not been determined. [provided by RefSeq]
Other Designations	MYB-related protein B OTTHUMP00000031719 v-myb avian myeloblastosis viral oncogene homolog-like 2

## 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](#)

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- [Lung Neoplasms](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)