

**Datasheet for 600-401-AY4****E2F3 Antibody****Overview**

<b>Description:</b>	Anti-E2F3 (RABBIT) Antibody - 600-401-AY4
<b>Item No.:</b>	600-401-AY4
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, IF, IHC, WB
<b>Reactivity:</b>	Human, Mouse
<b>Host Species:</b>	Rabbit

**Product Details**

<b>Background:</b>	The E2F transcription factor 3 (E2F3) is a member of a small family of transcription factors that function through binding of DP interaction partner proteins. E2F3 recognizes a specific sequence motif in DNA and interacts directly with the retinoblastoma protein (pRB) to regulate the expression of genes involved in the cell cycle (1). Like the related E2F1 and E2F2, E2F3 is essential for cellular proliferation and progression through the cell cycle (2). Altered copy number and activity of this gene have been observed in a number of human cancers (3).
<b>Synonyms:</b>	E2F transcription factor 3, E2F-3
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	E2F3
<b>Reactivity:</b>	Human, Mouse
<b>Immunogen Type:</b>	Conjugated Peptide
<b>Immunogen:</b>	Anti-E2F3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid peptide near the internal region of human E2F3.

**Purity/Specificity:** Anti-E2F3 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. E2F3 antibody is human and mouse reactive. At least three isoforms of E2F3 are known to exist; this antibody will detect only the largest isoform. This antibody is predicted to not cross-react with other members of the E2F transcription factor family.

**Relevant Links:**

- [UniProtKB - O00716](#)
- [GeneID - 1871](#)
- [NCBI - NP\\_001940](#)

## Application Details

**Tested Applications:** ELISA, IF, IHC, WB

**Application Note:** Anti-E2F3 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 49 kDa in Western Blots of specific cell lysates and tissues.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:10,000 - 1:20,000

**IF:** 20 µg/mL

**IHC:** 5 µg/mL

**WB:** 1-2 µg/mL

## Formulation

**Physical State:** Liquid (sterile filtered)

**Concentration:** 1 mg/mL by UV absorbance at 280 nm

**Buffer:** 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

**Preservative:** 0.02% (w/v) Sodium Azide

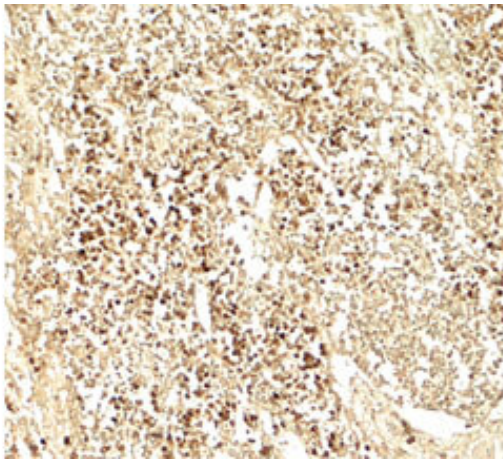
**Stabilizer:** None

## Shipping & Handling

**Shipping Condition:** Dry Ice

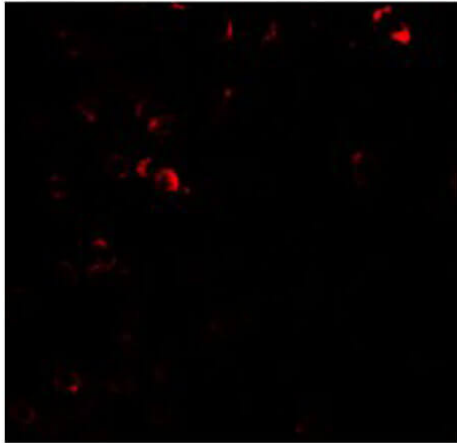
<b>Storage Condition:</b>	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images



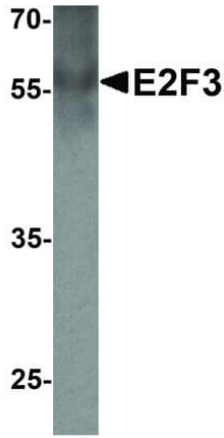
### Immunohistochemistry

Immunohistochemistry of Rabbit anti-E2F3 antibody. Tissue: human lymph node. Primary antibody: E2F3 antibody at 5 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:5,000. Localization: E2F3 is nuclear and cytoplasmic. Staining: E2F3 as precipitated brown signal.



### Immunofluorescence Microscopy

Immunofluorescence Microscopy of Rabbit anti-E2F3 antibody. Tissue: human lymph node. Primary antibody: E2F3 antibody at 20 µg/mL. Secondary antibody: Fluorescein rabbit secondary antibody at 1:20,000. Localization: E2F3 is nuclear and cytoplasmic. Staining: E2F3 as red fluorescent signal.

**Western Blot**

Western Blot of Rabbit anti-E2F3 antibody. Lane A: human lymph node tissue lysate. Primary antibody: E2F3 antibody at 1  $\mu\text{g}/\text{mL}$  overnight at 4 $^{\circ}\text{C}$ . Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 51 kDa, 56 kDa for E2F3.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.