

Datasheet for 600-401-FA5**TCF3 Antibody****Overview**

Description:	Anti-TCF3 (RABBIT) Antibody - 600-401-FA5
Item No.:	600-401-FA5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The TCF3 gene, also called E2A, encodes two basic helix-loop-helix (bHLH) transcription factors, E12 and E47, through alternative splicing. These transcription factors are involved in mediating canonical Wnt signaling, which is very important in a diverse array of cellular functions such as stem cell proliferation, self-renewal, activation, fate determination, differentiation and aging and senescence. They bind beta-catenin and can act as transcriptional activators or repressors for Wnt target genes, and have been shown to regulate specific target genes during CNS development downstream of Wnt signaling. TCF3/Lef complexes are also known to play key roles in controlling cell fate lineages in multipotent skin stem cells.
Synonyms:	TCF3 Antibody, E2A, E47, ITF1, VDIR, TCF-3, bHLHb21, BHLHB21, E2A, Transcription factor E2-alpha, Class B basic helix-loop-helix protein 21
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TCF3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-TCF3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the N-terminus of human TCF3.

Purity/Specificity: Anti-TCF3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with TCF3 from other sources has not been determined.

Relevant Links:

- [UniProtKB - P15923](#)
- [GeneID - 6929](#)
- [NCBI - NP_001129611.1](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-TCF3 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 68 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

IF: 20 µg/mL

IHC: 5 µg/mL

WB: 1 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

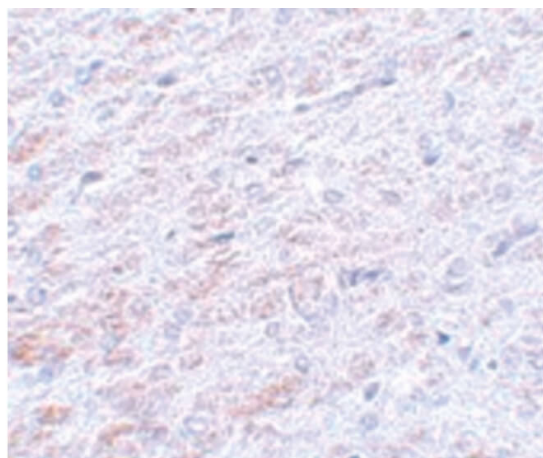
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: 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.

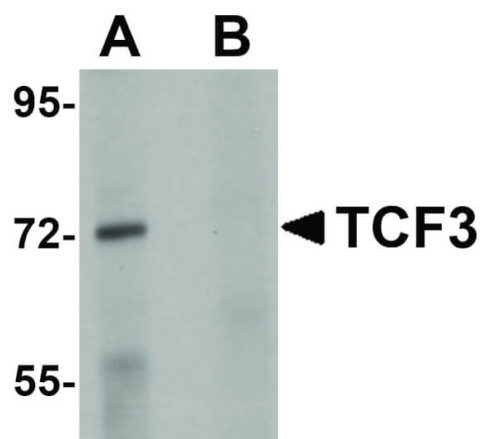
Expiration: Expiration date is one (1) year from date of receipt.

Images



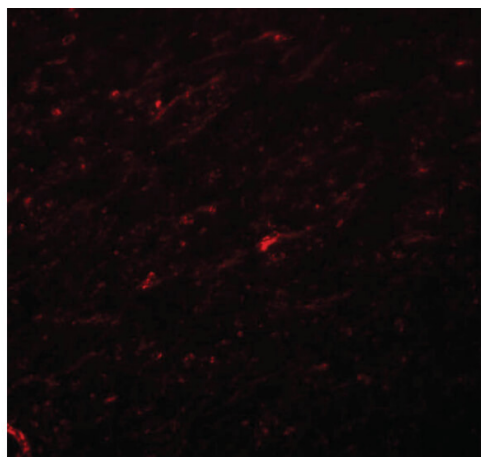
Immunohistochemistry

Immunohistochemistry of TCF3 antibody. Tissue: Rat liver tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TCF3 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TCF3 is a membrane protein. Staining: TCF3 as precipitated purple signal with blue nuclear counterstain.



Western Blot

Western Blot of TCF3 antibody. Lane 1: Human brain tissue lysate in the absence of blocking peptide. Lane 2: Human brain tissue lysate in the presence of blocking peptide. Primary Antibody: Anti-TCF3 antibody at 1 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 68 kDa, 72 kDa for TCF3. Other band(s): TCF3 splice variants and isoforms.

**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of TCF3 antibody. Tissue: Rat brain tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: TCF3 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TCF3 is a membrane protein. Staining: TCF3 as red fluorescent signal.

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.