

Datasheet for 600-401-FC1**TEM4 Antibody****Overview**

Description:	Anti-TEM4 (RABBIT) Antibody - 600-401-FC1
Item No.:	600-401-FC1
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Rho GTPases, which are activated by specific guanine-nucleotide exchange factors (GEFs), play pivotal roles in several cellular functions. TEM4, encoding a protein containing 1510 amino acids, contains a RhoGEF-specific Dbl homology (DH) domain but lacks their typical pleckstrin homology domain. TEM4 is a Rho-specific GEF with novel structural and regulatory properties and predominant expression in the heart. It couples tyrosine kinase signals with the activation of the rho/rac GTPases, thus leading to cell differentiation and/or proliferation. Elevated levels of TEM4, TEM5, TEM6, TEM7 and TEM7R were also raised in breast cancer tissues. TEM4 could also prove to be useful targets therapeutically.
Synonyms:	TEM4 Antibody, TEM4, P164RHOGF, p164-RhoGEF, KIAA0337, TEM4, Rho guanine nucleotide exchange factor 17, 164 kDa Rho-specific guanine-nucleotide exchange factor
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ARHGEF17
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-TEM4 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 18 amino acid synthetic peptide near the internal region of human TEM4.

Purity/Specificity: Anti-TEM4 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with TEM4 from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q96PE2](#)
- [GeneID - 9828](#)
- [NCBI - NP_055601.2](#)

Application Details

Tested Applications: ELISA, IHC, WB

Application Note: Anti-TEM4 Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 222 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

IHC: 2.5 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

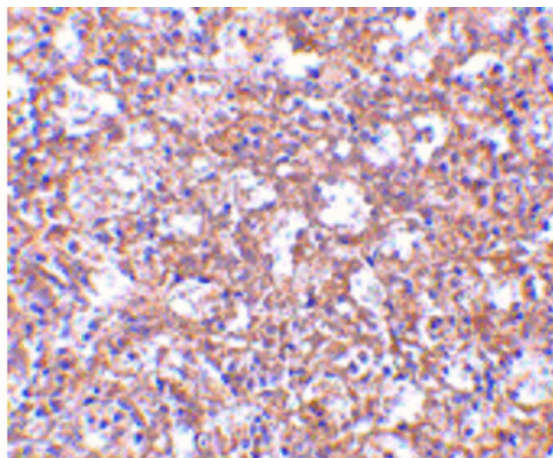
Shipping & Handling

Shipping Condition: Dry Ice

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.

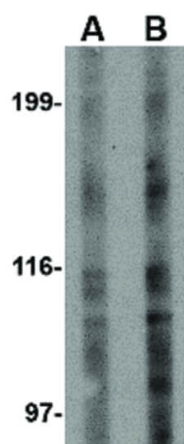
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of TEM4 antibody. Tissue: Human spleen tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TEM4 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TEM4 is nuclear and occasionally cytoplasmic. Staining: TEM4 as precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of TEM4 antibody. Lane A: Jurkat cell lysate at 1 µg/mL. Lane B: Jurkat cell lysate at 2 µg/mL. Load: 35 µg per lane. 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: 56.2 kDa, ~150 kDa for TEM4. Other band(s): TEM4 splice variants and isoforms.

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.