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Datasheet for 600-401-FA2

TCCR Antibody

Overview

Description:	Anti-TCCR (RABBIT) Antibody - 600-401-FA2
Item No.:	600-401-FA2
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Upon antigen challenge, T-helper cells differentiate into two functional distinct subsets, Th1 and Th2. Th1 cells produce IL-2, IFN-gamma and lymphotoxin-beta that augment cell mediated immune response while Th2 cells secrete IL-4, IL-5, and IL-10 that enhance humoral immunity. The function of T-helper cells is regulated by cytokines. A novel cytokine receptor was recently identified and cloned. It is a new member in the type I cytokine receptor family and designated TCCR for T-cell cytokine receptor and WSX-1. TCCR deficient mice had impaired Th1 responses to protein antigen challenge, including decreased levels of IFN-gamma and Th1-dependent antibody IgG2a. TCCR is predominately expressed in thymus, spleen, lymph notes and peripheral blood leukocytes.
Synonyms:	Interleukin-27 receptor subunit alpha, IL-27 receptor subunit alpha, IL-27R subunit alpha, IL-27R-alpha, IL-27RA, Cytokine receptor WSX-1, Cytokine receptor-like 1, Type I T-cell cytokine receptor, TCCR, ZcytoR1, IL27RA, CRL1, TCCR, WSX1, UNQ296/PRO336
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TCCR
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-TCCR antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the N-terminus of human TCCR precursor.
Purity/Specificity:	Anti-TCCR Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with TCCR from other sources has not been determined.
Relevant Links:	• UniProtKB - Q6UWB1 • GeneID - 9466 • NCBI - NP_004834.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-TCCR 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 69 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:	10 µg/mL
WB:	1 µg/mL

Formulation

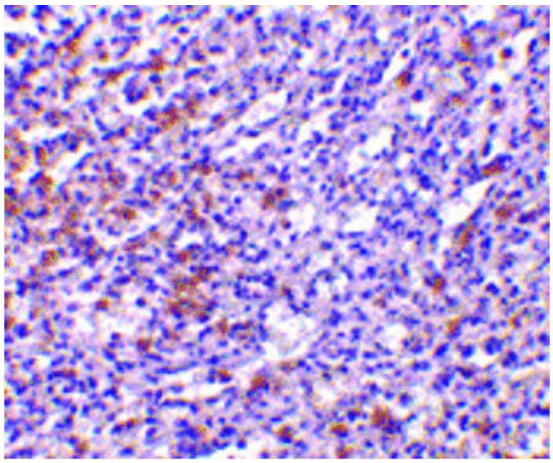
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

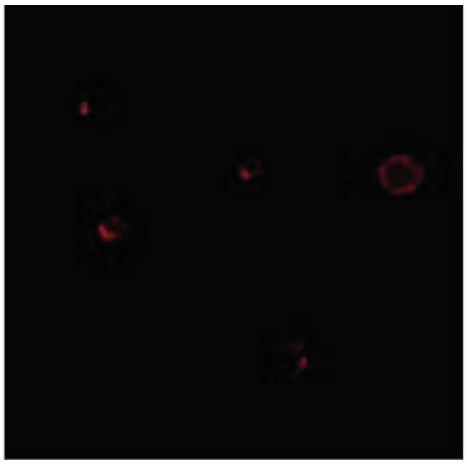
Shipping Condition:	Dry Ice

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.

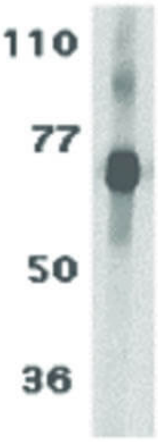
Images



Immunohistochemistry
Immunohistochemistry of TCCR antibody. Tissue: Human spleen tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TCCR antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TCCR is localized in the cell membrane. Staining: TCCR as precipitated brown signal with hematoxylin purple nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of TCCR antibody. Tissue: A549 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: TCCR 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: TCCR is localized in the cell membrane. Staining: TCCR as red fluorescent signal.



Western Blot
Western Blot of TCCR antibody. Lane 1: Human spleen tissue lysate. Load: 35 µg per lane. Primary antibody: TCCR antibody at 1 µg/mL for overnight at 4°C. 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: 69.4 kDa, 70 kDa for TCCR. Other band(s): TCCR splice variants and isoforms.

Disclaimer

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