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Anti-TCCR (CT)
Polyclonal Antibody

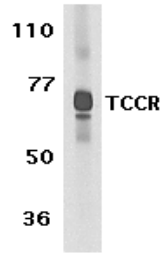
CATALOG No.: PX222A SIZE: 100 µg
PX222B SIZE: 0.5 mg

BACKGROUND:
Upon antigen challenge, T-helper cells differentiate into two functional distinct subsets, Th1 and Th2. Th1 cells produce IL-2, IFN-γ and lymphotoxin-β 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 (1,2). It is a new member in the type I cytokine receptor family and designated TCCR for *T-c*ell *c*ytokine *r*eceptor and WSX-1 (1,2). TCCR deficient mice had impaired Th1 responses to protein antigen challenge, including decreased levels of IFN-γ and Th1-dependent antibody IgG2a (1). TCCR is predominately expressed in thymus, spleen, lymph notes and peripheral blood leukocytes.

SOURCE:
Rabbit anti-TCCR polyclonal antibody was raised against a synthetic peptide (SGYEKHFLPTPEELG) corresponding to amino acids 611 to 625 of human TCCR precursor (1). This sequence is identical to that of mouse TCCR (1,2)

APPLICATION:
This antibody can be used for detection of TCCR by Western blot at 0.5 to 1 µg/ml. Human spleen tissue lysate can be used as positive control and an approximately 70 kDa band can be detected. It is human, mouse, and rat reactive.

STORAGE:
It is supplied as immunoaffinity purified IgG, 100 µg in 200 µl of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of TCCR expression in human spleen tissue lysate with anti-TCCR-CT at 1 µg /ml.

RELATED PRODUCTS:
Blocking peptide, 50 µg at 200 µg/ml, is available for competition studies.
Human spleen tissue lysate, 100 µg at 2 mg/ml, is available for positive control.

REFERENCES:
1. Chen Q, Ghilardi N, Wang H, Baker T, Xie MH, Gurney A, Grewal IS and de Sauvage FJ. Development of Th1-type immune responses requires the type I cytokine receptor TCCR *Nature* 2000;407(6806):916-920

2. Sprecher,C.A.,Grant,F.J., Baumgartner,J.W., Presnell,S.R., Schrader,S.K., Yamagiwa,T., Whitmore,T.E., O'Hara,P.J. and Foster,D.F. Cloning and characterization of a novel class I cytokine receptor *Biochem. Biophys. Res. Commun.* 1998;246(1):82-90

CAUTION: NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.

Cell Sciences, Inc.
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Web Site: www.cellsciences.com