

Anti-TCCR (NT)

CATALOG No.: PX207A SIZE: 100 Mg
PX207B SIZE: 0.5 mg

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.

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-cell cytokine receptor 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 nodes and peripheral blood leukocytes.

SOURCE:

Rabbit anti-TCCR polyclonal antibody was raised against a synthetic peptide (GSAGPLQCYGVGPLGD) corresponding to amino acids 44 to 59 of human TCCR precursor (1).

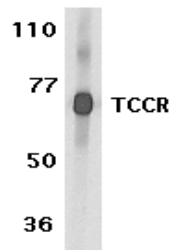
APPLICATION:

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.

For research use only.

STORAGE:

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



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

RELATED PRODUCTS:

Blocking peptide, 50 µg at 200 µg/ml, is available for competition studies.

K562 cell lysate, 200 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



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