



Product Information

Anti-TCCR, C-Terminal

Developed in Rabbit
Affinity Isolated Antibody

Product Number **T 5823**

Product Description

Anti-TCCR, C-Terminal is developed in rabbit using a synthetic peptide (SGYEKHFLLPTPEELG) corresponding to amino acids 611-625 of human TCCR (T-cell cytokine receptor) precursor¹ as immunogen. The sequence is identical to that from mouse TCCR.^{1,2} The antibody is purified by immunoaffinity chromatography.

Anti-TCCR, C-Terminal recognizes TCCR (approximately 70 kDa) by immunoblotting. It reacts with TCCR from human, mouse, and rat.

Upon antigen stimulation, T-helper cells can differentiate into two functional subsets, Th1 and Th2. Th1 cells produce IL-2, IFN- γ , and lymphotoxin- β that augment cell mediated immune response. Th2 cells secrete IL-4, IL-5, and IL-10 that enhance humoral immunity. Cytokines regulate the function of T-helper cells.

TCCR, also designated WSX-1, is a member of the type I cytokine receptor family.^{1,2} TCCR deficient mice have impaired Th1 responses to antigen stimulation, including decreased levels of IFN- γ and Th1-dependent antibody IgG2a.¹ TCCR is predominantly expressed in thymus, spleen, lymph nodes, and peripheral blood leukocytes.

Reagent

Anti-TCCR, C-Terminal is supplied as approximately 0.5 mg/ml of antibody in phosphate buffered saline containing 0.02% sodium azide.

Precautions and Disclaimer

Due to the sodium azide content, a material safety data sheet (MSDS) has been sent to the attention of the safety officer at your institution. Consult the MSDS for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. Do not store in a "frost-free" freezer. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

For immunoblotting, the recommended working antibody concentration is 0.5-1 μ g/ml using human spleen tissue lysates.

Note: In order to obtain the best results and assay sensitivities in various techniques and preparations, we recommend determining optimal working dilutions by titration.

References

1. Chen, Q., et al., Development of Th1-type immune responses requires the type I cytokine receptor TCCR. *Nature*, **407**, 916-920 (2000).
2. Sprecher, C.A., et al., Cloning and characterization of a novel class I cytokine receptor. *Biochem. Biophys. Res. Commun.*, **246**, 82-90 (1998).

kaa 02/03

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