
Anti-TCR beta

Cat #: HM1366
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

The T cell receptor (TCR) is a complex of integral membrane proteins that participates in the activation of T cells in response to the presentation of antigen. TCR is composed of either α and β or γ and δ chains. The vast majority of circulating T cells (95%) express the α/β heterodimer while roughly 2-5% express the γ/δ heterodimer. The T cell antigen receptor (TCR) recognizes foreign antigens and translates such recognition events into intracellular signals that elicit a change in the cell from a dormant to an activated state. This activation involves other membrane-associated molecules that couple the extracellular liganding event to downstream signaling pathways such as protein phosphorylation, the release of inositol phosphates and the elevation of intracellular calcium levels.

SPECIFICITY

This antibody specifically reacts with TCR beta of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

Molecular Weight of TCR beta; 34 kDa.

IMMUNOGEN

A recombinant protein corresponding to the carboxy terminus of human TCR β .

STORAGE

This antibody is stable for 24 months when stored at 2-8°C.

REFERENCES

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3. Ehrlich, E.W., Devaux, B., Rock, E.P., Jorgensen, J.L., Davis, M.N., and Chien, Y.H. 1993. T cell receptor interaction with peptide/major histocompatibility complex (MHC) and superantigen/MHC ligands is dominated by antigen. *J. Exp. Med.* 178: 713-722.
4. JE van Leeuwen and LE Samelson 1999. T cell antigen-receptor signal transduction. *Curr Opin Immunol* 11, 242-8.

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