

TCR beta antibody [H57-597]

Cat. No. GTX01479

Host	Armenian Hamster
Clonality	Monoclonal
Isotype	IgG
Applications	IHC-Fr, FCM, IP, Activation, Depletion
Reactivity	Mouse

References (5)
 Package
 100 µg

PRODUCT

Summary

The H57-597 antibody is specific for the beta chain of the mouse T cell Receptor (TCR). This cell surface protein combines with a second protein chain (alpha chain) to form the alpha-beta TCR that is expressed by NK1.1+ thymocytes, NKT cells, and the majority of peripheral T cells. A small number of T cells may express an alternative heteromer of gamma/delta protein chains, known as the g/d TCR. These receptors participate in a complex with CD3, and with the co-receptors CD4 or CD8, to recognize and respond to antigens bound to MHC molecules on antigen-presenting cells. Such interactions promote T cell receptor signaling (T cell activation) and can result in a number of cellular responses including proliferation, differentiation, production of cytokines or activation-induced cell death. The H57-597 antibody is used as a phenotypic marker for T cells expressing the alpha-beta TCR. It is also widely used to cross-link surface TCR and thereby mimic TCR-mediated cell activation or induction of apoptosis. The antibody does not cross-react with cells expressing the g/d TCR.

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
IHC-Fr	Assay dependent
FCM	Assay dependent
IP	Assay dependent
Activation	Assay dependent
Depletion	Assay dependent

Not tested in other applications.

Properties

Form	Liquid
Buffer	10mM NaH ₂ PO ₄ , 150mM NaCl
Preservative	0.09% Sodium azide
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C.
Concentration	0.5 mg/ml (Please refer to the vial label for the specific concentration.)



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Purification	Purified by affinity chromatography From tissue culture supernatant
Purity	> 90% (determined by SDS-PAGE)
Conjugation	Unconjugated
Note	<p>For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.</p> <p>Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.</p>



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