

## CD8 alpha antibody [RPA-T8]

Cat. No. GTX01467

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Application	IHC-Fr, FACS, ELISA, Activation
Reactivity	Human, Baboon, Chimpanzee, Cynomolgus monkey, Rhesus Monkey, Sooty Mangabey

Reference ( 6 )

Package

100 µg

## PRODUCT

## Summary

The RPA-T8 antibody is specific for the 32-34 kDa alpha chain of human CD8, known as CD8a or CD8 alpha. CD8a can form a homodimer (CD8 alpha-alpha), but is more commonly expressed as a heterodimer with a second chain known as CD8b or CD8 beta. CD8 acts as a co-receptor for antigen recognition and subsequent T cell activation that is initiated upon binding of the T cell receptor (TCR) to antigen-bearing MHC Class I molecules. The cytoplasmic domains of CD8 provide binding sites for the tyrosine kinase lck, facilitating intracellular signaling events that lead to T cell activation, development, and cytotoxic effector functions. CD8+ cytotoxic T cells (CTLs) play an important role in inducing cell death of tumor cells, as well as cells infected by virus, bacteria or parasites. The RPA-T8 antibody is widely used as a phenotypic marker for CD8 on cytotoxic T cells, thymocytes, as well as on certain cell types that do not also express the TCR, including some NK cells and lymphoid dendritic cells. It is cross-reactive with CD8 in several non-human species, including Baboon, Chimpanzee, Cynomolgus and Rhesus. If used together with an alternative Anti-Human CD8a clone, Hit8a, the RPA-T8 antibody will not block binding of Hit8a to CD8a.

## APPLICATION

## Application Note

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

Suggested dilution	Recommended dilution
IHC-Fr	Assay dependent
FACS	Assay dependent
ELISA	Assay dependent
Activation	Assay dependent

Not tested in other applications.

**Calculated MW** 26 kDa. ( [Note](#) )

## PROPERTIES

Form	Liquid
Buffer	10mM NaH <sub>2</sub> PO <sub>4</sub> , 150mM NaCl
Preservative	0.09% Sodium azide
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C.



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<b>Concentration</b>	0.5 mg/ml (Please refer to the vial label for the specific concentration.)
<b>Purification</b>	Purified by affinity chromatography From tissue culture supernatant
<b>Purity</b>	> 90% (determined by SDS-PAGE)
<b>Conjugation</b>	Unconjugated
<b>Note</b>	<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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