

Catalog No. NIH-NA-02

Anti-CD8 α Monoclonal Antibody

T cell coreceptor CD8 exists on mature T cells as homodimers of CD8 α polypeptide chains and heterodimers of CD8 α - and CD8 β - chains. T-cells expressing the CD8 surface antigens constitute an important component of the specific effector mechanism in immunosurveillance against virus-infected or transformed cells, and are thus termed cytotoxic T-lymphocytes (CTLs). CD8 $^{+}$ CTL recognize endogenously derived peptides in the context of the MHC class I molecule. This recognition process also involves CD8 which binds to the $\alpha 3$ -domain of the MHC class Ia molecule.

Product type	Primary Antibodies
Immunogen	ginbuna CD8 α -expressing Normal Rat Kidney cells (NRK)
Raised in	Rat (Wistar ST)
Myeloma	P3-X63.Ag8.653 mouse myeloma
Clone number	2C3
Isotype	IgG2a
Source	Serum free culture supernatant
Purification	Protein G
Buffer	PBS containing 0.05% NaN ₃ as a preservative
Concentration	1 mg/mL
Volume	50 μ l
Label	Unlabeled
Cross reactivity	Ginbuna crucian carp, Goldfish, Carp, Zebrafish
Storage	Store below -20°C (below -70°C for prolonged storage). Aliquot to avoid cycles of freeze/thaw.

- Application notes**
- Fluorescence - activated cell sorter: 5 μ g/ml (Ref. 1)
 - Immuno-histochemistry: 5 μ g/ml (Ref. 2)
- Optimal dilutions/concentrations should be determined by the end user.

- References**
1. Toda H., et al. Allo-antigen specific killing is mediated by CD8 positive T cells in fish. Dev. Comp. Immunol. (2009) 33 (4), 646-652.
 2. Shibasaki Y., et al. Kinetics of lymphocyte subpopulations in allogeneic grafted scales of ginbuna crucian carp. Dev Comp Immunol. (2015) 52(1), 75-80.

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