



**Catalog No. NIH-NA-02**

## Anti-CD8 $\alpha$ Monoclonal Antibody

T cell coreceptor CD8 exists on mature T cells as homodimers of CD8 $\alpha$  polypeptide chains and heterodimers of CD8 $\alpha$ - and CD8 $\beta$ - 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.

<b>Product type</b>	Primary Antibodies
<b>Immunogen</b>	ginbuna CD8 $\alpha$ -expressing Normal Rat Kidney cells (NRK)
<b>Raised in</b>	Rat (Wistar ST)
<b>Myeloma</b>	P3-X63.Ag8.653 mouse myeloma
<b>Clone number</b>	2C3
<b>Isotype</b>	IgG2a
<b>Source</b>	Serum free culture supernatant
<b>Purification</b>	Protein G
<b>Buffer</b>	PBS containing 0.02% NaN3 as a preservative
<b>Concentration</b>	1 mg/mL
<b>Volume</b>	50 ul
<b>Label</b>	Unlabeled
<b>Cross reactivity</b>	Ginbuna crucian carp, Goldfish, Carp, Zebrafish
<b>Storage</b>	Store below -20°C (below -70°C for prolonged storage). Aliquot to avoid cycles of freeze/thaw.

**Application notes**

- Fluorescence - activated cell sorter: 5 ug/ml ( Ref. 1 )
- Immuno-histochemistry: 5 ug/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. Shibusaki 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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