

**In Vivo Ready™ Anti-Mouse CD8a (53-6.7) Antibody**  
**Catalog # ATB10142****Specification**

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**In Vivo Ready™ Anti-Mouse CD8a (53-6.7) Antibody - Product Information**

Application	IHC-P, IHC-F, FC, IP, FA
Isotype	Rat IgG2a, kappa
Concentration	2 mg/mL
Reactivity	Mouse
Formulation	10 mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, pH7.2
Host	Rat

**In Vivo Ready™ Anti-Mouse CD8a (53-6.7) Antibody - Additional Information**

Gene ID	12525
Gene Name	Cd8a
<b>Alternative Name(s)</b>	
CD8 alpha, Ly-2, Ly-35, Ly-B, Lyt-2	

**Format**

In Vivo Ready™

**Preparation**

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

**Application Notes**

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

**Endotoxin Level**

Less than or equal to 0.01 EU/ug, as determined by the LaL assay

**Storage Conditions**

2-8°C

**In Vivo Ready™ Anti-Mouse CD8a (53-6.7) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**In Vivo Ready™ Anti-Mouse CD8a (53-6.7) Antibody - Images****In Vivo Ready™ Anti-Mouse CD8a (53-6.7) Antibody - Background**

The 53-6.7 antibody reacts with the 32-34 kDa alpha subunit of mouse 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 in 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 53-6.7 antibody is widely used as a phenotypic marker for mouse CD8a expression 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.