

# Product Datasheet

## CD8 Antibody (53-6.7) - Azide and BSA Free NBP2-80658

Unit Size: 0.5 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-80658**

CD8 Antibody (53-6.7) - Azide and BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.5 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	53-6.7
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	27 kDa

<b>Product Description</b>	
<b>Description</b>	This CD8 alpha antibody serves as an effective marker of cytotoxic T lymphocytes by binding to the CD8 co-receptor expressed on the cell surface of cytotoxic T cells, recognizing the topological domain of CD8 alpha. Because this CD8 antibody is made to the alpha chain it will recognize both the CD8 alpha - CD8 beta heterodimer, the most common form, as well as the CD8 alpha - CD8 alpha homodimer. The CD8A gene is also expressed in natural killer cells (NK cells), dendritic cells and cortical thymocytes making the CD8 alpha antibody a potential marker for these cells.
<b>Host</b>	Rat
<b>Gene ID</b>	925
<b>Gene Symbol</b>	CD8A
<b>Species</b>	Mouse, Rat
<b>Immunogen</b>	CD8 Antibody (53-6.7) was developed against mouse thymus or spleen.

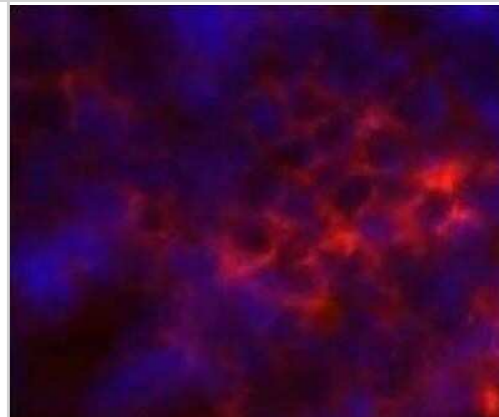
<b>Product Application Details</b>	
<b>Applications</b>	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Cell depletion, CyTOF-ready, Immunocytochemistry, Inhibition of T Cell Function
<b>Recommended Dilutions</b>	Flow Cytometry 1:10 - 1:1000, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500. Use reported in scientific literature, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin reported in scientific literature (PMID 24565643), Immunohistochemistry-Frozen 1:10 - 1:500, Cell depletion, Inhibition of T Cell Function, Immunocytochemistry, CyTOF-ready

**Application Notes**

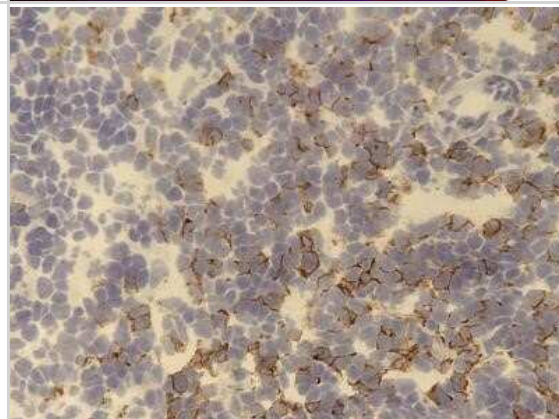
Each lot of this CD8a antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is  $<0.25 \mu\text{g}/10^6$  cells in 100  $\mu\text{L}$  volume. It is recommended that the reagent be titrated for optimal performance for each application. The 53-6.7 antibody has been reported to block antigen presentation via MHC class I and inhibit T cell responses to IL-2. This antibody has also been used for depletion of CD8a+ cells. Additional reported applications (for the relevant formats) include: immunoprecipitation, in vivo and in vitro cell depletion, inhibition of CD8 T cell proliferation, blocking of cytotoxicity, and immunohistochemical staining of both acetone-fixed frozen sections and zinc-fixed paraffin-embedded sections. Use in ICC/IF was reported in scientific literature. Use in Immunohistochemistry-Paraffin reported in scientific literature (PMID 24565643).

**Images**

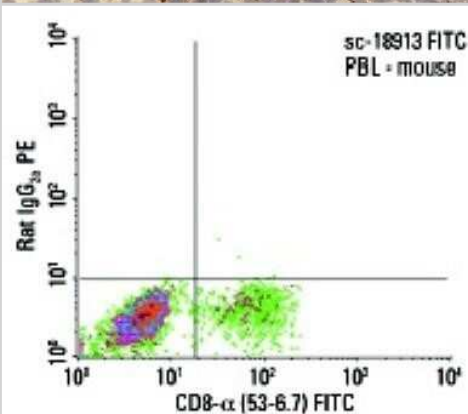
Immunocytochemistry: CD8 Antibody (53-6.7) - Azide and BSA Free [NBP2-80658] - Analysis of frozen spleen sections. Blocking: 1 hour at 25C with serum at 5% concentration . Image from the standard format of this antibody.



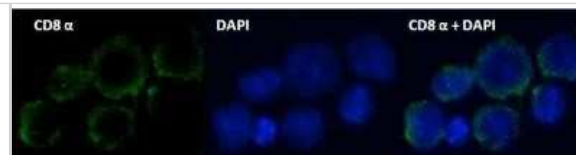
Immunohistochemistry: CD8 Antibody (53-6.7) - Azide and BSA Free [NBP2-80658] - CD8 alpha expression in mouse spleen tissue using anti-CD8 alpha antibody. Image from verified customer review. Image from the standard format of this antibody.



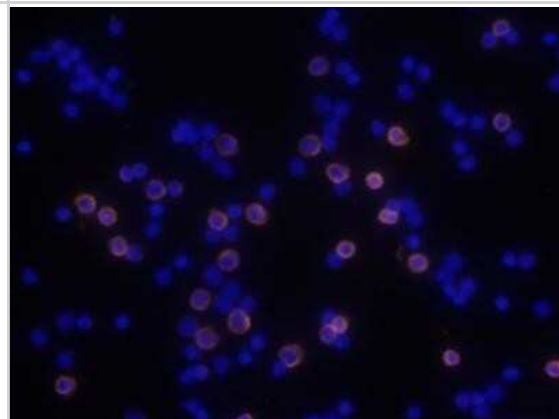
Flow Cytometry: CD8 Antibody (53-6.7) - Azide and BSA Free [NBP2-80658] - Staining of peripheral blood leukocytes. Image from the standard format of this antibody.



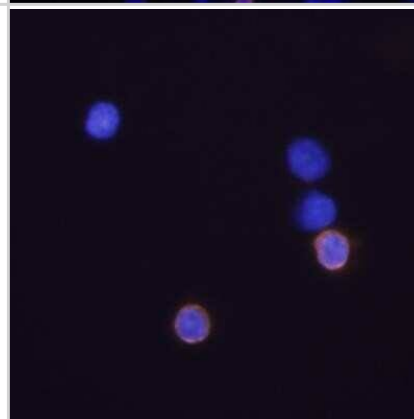
Immunocytochemistry/Immunofluorescence: CD8 Antibody (53-6.7) - Azide and BSA Free [NBP2-80658] - Analysis of bone marrow tissue by single and multiple staining. Image from the standard format of this antibody.



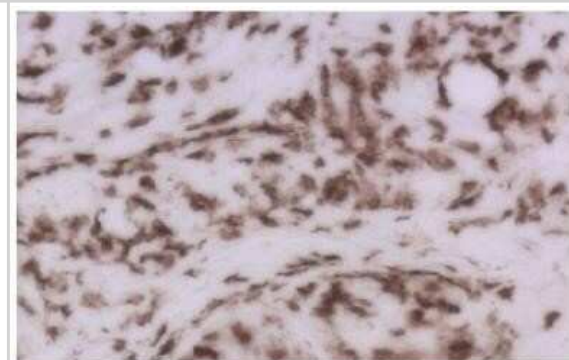
Immunocytochemistry/Immunofluorescence: CD8 Antibody (53-6.7) - Azide and BSA Free [NBP2-80658] - Analysis of immersion fixed splenocytes. Primary antibody was used at a dilution of 10 ug/mL and incubated for 3 hours at room temperature. Image from the standard format of this antibody.



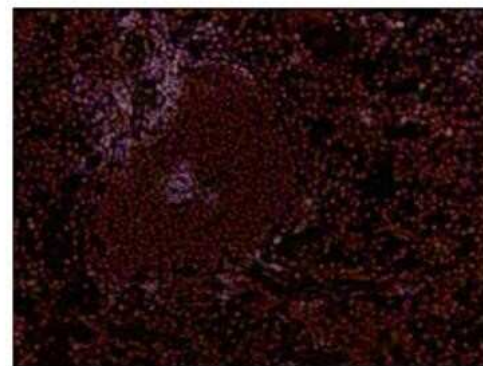
Immunocytochemistry/Immunofluorescence: CD8 Antibody (53-6.7) - Azide and BSA Free [NBP2-80658] - Analysis of splenocytes. Primary antibody was used at a dilution of 10 ug/mL and incubated for 3 hours at room temperature. Image from the standard format of this antibody.



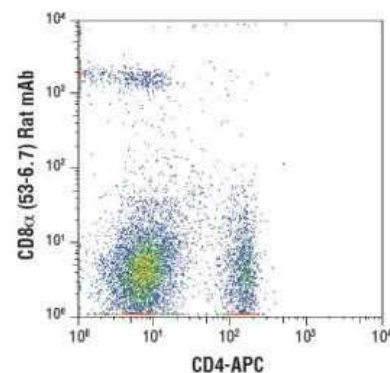
Immunohistochemistry: CD8 Antibody (53-6.7) - Azide and BSA Free [NBP2-80658] - Analysis of CD8+ T cells in allogeneic skin grafted onto a mouse. Image from the standard format of this antibody.



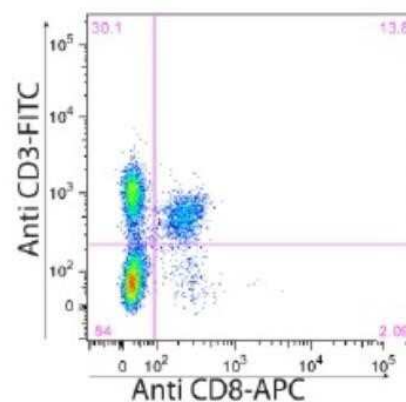
Immunohistochemistry-Paraffin: CD8 Antibody (53-6.7) - Azide and BSA Free [NBP2-80658] - Analysis of mouse spleen sections. CD8+ lymphocytes are marked by brown labeling of the cell surface. Image from the standard format of this antibody.



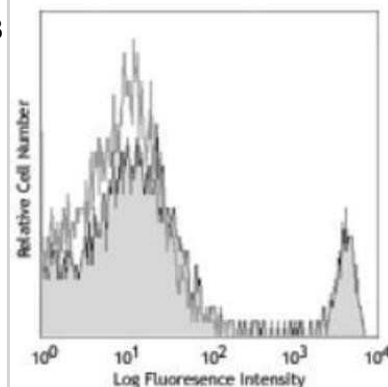
Flow Cytometry: CD8 Antibody (53-6.7) - Azide and BSA Free [NBP2-80658] - Analysis of fixed murine splenocytes by multiple staining. Image from the standard format of this antibody.



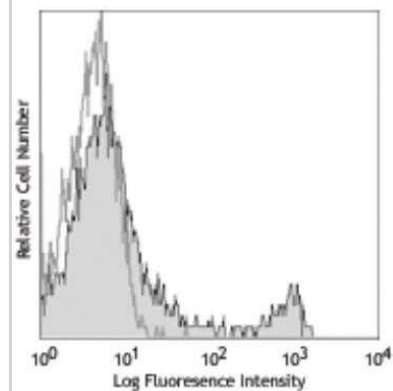
Flow Cytometry: CD8 Antibody (53-6.7) - Azide and BSA Free [NBP2-80658] - Analysis of lymph nodes by multiple staining. Image from the standard format of this antibody.



Flow Cytometry: CD8 Antibody (53-6.7) - Azide and BSA Free [NBP2-80658] - C57BL/6 mouse splenocytes were stained with biotinylated CD8 (clone 53-6.7) (filled histogram) or rat IgG2a, k isotype control (open histogram), followed by Sav-PE. Image from the standard format of this antibody.



Flow Cytometry: CD8 Antibody (53-6.7) - Azide and BSA Free [NBP2-80658] - C57BL/6 mouse splenocytes were stained with purified CD8 (clone 53-6.7) (filled histogram) or rat IgG2a, k isotype control (open histogram), followed by anti-rat IgG FITC. Image from the standard format of this antibody.







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NBP1-75398	Goat anti-Rat IgG (H+L) Secondary Antibody (Pre-adsorbed)
NBP1-43321-0.5mg	Rat IgG2a Kappa Light Chain Isotype Control (R2a)
NBP2-34039PEP	CD8 Recombinant Protein Antigen

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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