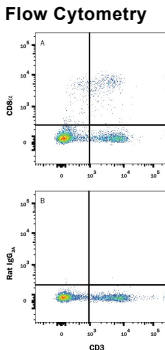
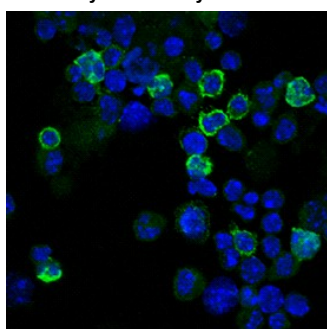


DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects both the α and α' chains of mouse CD8 (1).
Source	Monoclonal Rat IgG _{2A} Clone # 53-6.7
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse thymus or spleen
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS		
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.		
	Recommended Concentration	Sample
Flow Cytometry	5 μ L/10 ⁶ cells	See Below
Immunocytochemistry	5 μ g/mL	See Below

DATA	
<p>Flow Cytometry</p>  <p>Detection of CD8α in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Rat Anti-Mouse CD3 APC-conjugated Monoclonal Antibody (Catalog # FAB4841A) and either (A) Rat Anti-Mouse CD8α Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB116G) or (B) Rat IgG_{2A} Alexa Fluor 488 Isotype Control (Catalog # IC006G). View our protocol for Staining Membrane-associated Proteins.</p>	<p>Immunocytochemistry</p>  <p>CD8α in Mouse Splenocytes. CD8α was detected in immersion fixed mouse splenocytes using Rat Anti-Mouse CD8α Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB116G, green) at 10 μg/mL for 3 hours at room temperature. Cells were counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>

PREPARATION AND STORAGE	
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD8, also known as Ly-2, is a heterodimeric glycoprotein consisting of an α and β chain. It is expressed on cytolytic T cells and functions in conjunction with the T cell receptor in the recognition of MHC/peptide complexes. Mouse CD8 (containing an α /Ly-2 or α' /Ly-2 chain) is an antigen co-receptor on the T cell surface which interacts with MHC I molecules on antigen presenting cells (1). CD8 $\alpha\beta$ heterodimer is expressed on a subpopulation of mature T cells (2, 3). CD8 α , without CD8 β , has been detected on subsets of $\gamma\delta$ TCR-bearing T cells (4), intestinal intrathymic lymphocytes (5, 6) and dendritic cells (7, 8).

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