Mouse CD8α Antibody

Monoclonal Rat IgG_{2A} Clone # 1104516

Catalog Number: MAB11715

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects recombinant mouse CD8 alpha protein in Direct ELISA.
Source	Monoclonal Rat IgG_{2A} Clone # 1104516
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line, NS0-derived mouse CD8 Lys28-Tyr196 Accession # P01731
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.

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
Multiplex Immunofluorescence	5 µg/mL	Perfusion fixed paraffin-embedded sections of mouse spleen
Immunohistochemistry	3-25 µg/mL	Perfusion fixed paraffin-embedded sections of mouse spleen and thymus

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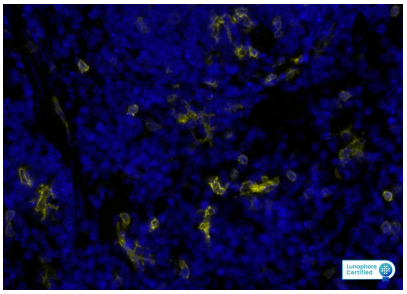
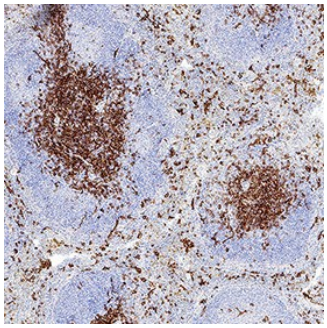
DATA

Multiplex Immunofluorescence



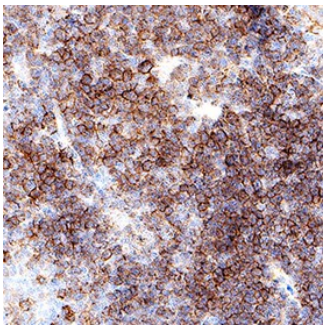
Detection of CD8a in Mouse spleen via seqIF™ staining on COMET™ CD8a was detected in perfusion fixed paraffin-embedded sections of mouse spleen using Rat Anti-Mouse CD8a, Monoclonal Antibody (Catalog #MAB11715) at 5ug/mL at 37 ° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; Epredia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ 647 Goat anti-Rat IgG Secondary Antibody at 1:200 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # DR647RT) and counterstained with DAPI (blue; Lunaphore Catalog # DR100). Specific staining was localized to the membrane. Protocol available in COMET™ Panel Builder.

Immunohistochemistry



Detection of CD8α in Mouse Spleen. CD8α was detected in perfusion fixed paraffin-embedded sections of mouse spleen using Rat Anti-Mouse CD8α Monoclonal Antibody (Catalog # MAB11715) at 5 µg/ml overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using the HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005) and counterstained with hematoxylin (blue). Specific staining was localized to the membrane. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Immunohistochemistry



Detection of CD8α in Mouse Thymus. CD8α was detected in perfusion fixed paraffin-embedded sections of mouse thymus using Rat Anti-Mouse CD8α Monoclonal Antibody (Catalog # MAB11715) at 5 µg/ml overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using the HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005) and counterstained with hematoxylin (blue). Specific staining was localized to the membrane. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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′/Lyt-2 chain) is an antigen co-receptor on the T cell surface which interacts with MHC I molecules on antigen presenting cells (1). CD8αβ heterodimer is expressed on a subpopulation of mature T cells (2, 3). CD8α, without CD8β, has been detected on subsets of γδ TCR-bearing T cells (4), intestinal intrathymic lymphocytes (5, 6) and dendritic cells (7, 8).

References:

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