Glowing products for science

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CD8a Monoclonal Mouse Antibody (SK1) - Biotium Choice

CD8a (clone SK1) is a validated mouse monoclonal antibody that recognizes CD8a, a transmembrane glycoprotein and co-receptor found in T cells. The antibody belongs to the Biotium Choice list of select antibodies that have been validated and optimized in-house for optimal performance.

Product Description

CD8a (clone SK1) is a mouse monoclonal antibody derived from the CD8 alpha chain. This antibody belongs to the Biotium Choice list of select antibodies that have been validated and optimized in-house for optimal performance. The antibody is available conjugated to CF® Dyes and Astral™ tandem dyes. They are supplied in PBS, 0.1% BSA, 0.05% azide.

CD8 is a cell surface receptor expressed either as a heterodimer with the CD8 beta chain (CD8 alpha/beta) or as a homodimer (CD8 alpha/alpha). A majority of thymocytes and a subpopulation of mature T cells and NK cells express CD8a. CD8 binds to MHC class 1 and through its association with protein tyrosine kinase p56lck plays a role in T cell development and activation of mature T cells. For mature T-cells, CD4 and CD8 are mutually exclusive, so anti-CD8, generally used in conjunction with anti-CD4. It is a useful marker for distinguishing helper/inducer T-lymphocytes, and most peripheral T-cell lymphomas are CD4 /CD8-. Anaplastic large cell lymphoma is usually CD4 and CD8-, and in T-lymphoblastic lymphoma/leukemia, CD4 and CD8 are often co-expressed. CD8 is also found in littoral cell angioma of the spleen.

As an isotype control, we recommend Isotype Control, Monoclonal Mouse IgG1 Kappa (IGG1/1331) for this antibody.

Discover Sharper Signals and Unmatched Panel Flexibility with Biotium Choice Antibodies
Powered by CF® Dyes and Astral Leap™ Tandem Dyes

Biotium Choice antibodies are carefully curated and validated in-house to offer exceptional signal-to-noise. Labeled with our advanced CF® Dyes and Astral Leap™ tandem dyes, they are our top-recommended antibodies for flow cytometry and other applications.

Biotium Choice Antibody Features

- Robust and validated clones against common targets
- Developed and optimized for flow cytometry and other applications
- Conjugated to bright, photostable CF® Dyes for superior signal and clarity
- Also available with Astral Leap™ tandem dyes for expanding multiplexing
- New antibody clones and dye conjugates continuously in development

View our full catalog of Biotium Choice antibodies

Product attributes

Antibody number	#P009
Antibody reactivity (target)	CD8A
Biotium Choice Antibody	Primary
Antibody type	Biotium Choice Flow Antibodies, Primary
Host species	Mouse
Clonality	Monoclonal
Clone	SK1
Isotype	IgG1, kappa
Molecular weight	32-34 kDa (alpha chain)
Synonyms	CD8, Leu2, MAL, p32
Human gene symbol	CD8A
Entrez gene ID	925
SwissProt	P01732
Unigene	85258
Immunogen	Human peripheral blood T cells
Antibody target cellular localization	Plasma membrane
Verified antibody applications	Flow (surface) (verified)
Species reactivity	Human
Antibody application notes	Recommended concentration for flow cytometry: 5 uL per million cells/0.1 mL
Positive control	Human peripheral blood mononuclear cells (PBMCs), CCRF-CEM or HL-60
Shipping condition	Room temperature
Storage Conditions	Store at 2 to 8 °C, Protect fluorescent conjugates from light
Shelf life	Guaranteed for at least 24 months from date of receipt when stored as recommended
Regulatory status	For research use only (RUO)
Antibody/conjugate formulation	Conjugates: PBS/0.1% BSA/0.05% azide
Antibody research areas	Immunology
Volume per assay	5 uL/test
Cell/tissue expression	Lymphocytes, T-cells
Tumor expression	Leukemia/lymphoma
Product origin	Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.

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Conjugation	Ex/Em	Conc.	Size	Catalog No.	
CF®405S	411/431 nm	200 ug/mL	25 tests (125 uL)	P009-405S-125	CF®405S Features
100 tests (500 uL)	P009-405S-500				
CF®405M	416/452 nm	100 ug/mL	25 tests (125 uL)	P009-405M-125	CF®405M Features
100 tests (500 uL)	P009-405M-500				
CF®405L	413/547 nm	300 ug/mL	25 tests (125 uL)	P009-405L-125	CF®405L Features
100 tests (500 uL)	P009-405L-500				
CF®488A	490/516 nm	100 ug/mL	25 tests (125 uL)	P009-488A-125	CF®488A Features
100 tests (500 uL)	P009-488A-500				
CF®503R	503/532 nm	50 ug/mL	25 tests (125 uL)	P009-503R-125	CF®503R Features
100 tests (500 uL)	P009-503R-500				
CF®514	516/549 nm	100 ug/mL	25 tests (125 uL)	P009-514-125	CF®514 Features
100 tests (500 uL)	P009-514-500				
CF®568	562/584 nm	100 ug/mL	25 tests (125 uL)	P009-568-125	CF®568 Features
100 tests (500 uL)	P009-568-500				
CF®575	575/601 nm	200 ug/mL	25 tests (125 uL)	P009-575-125	
100 tests (500 uL)	P009-575-500				
RPE-Astral™616	496, 546, 566/617 nm	200 ug/mL	25 tests (125 uL)	P009-R616-125	
100 tests (500 uL)	P009-568-500				
CF®647Plus	652/668 nm	50 ug/mL	25 tests (125 uL)	P009-647P-125	
100 tests (500 uL)	P009-647P-500				
CF®660C	667/685 nm	100 ug/mL	25 tests (125 uL)	P009-660C-125	CF®660C Features
100 tests (500 uL)	P009-660C-500				
CF®700	696/721 nm	100 ug/mL	25 tests (125 uL)	P009-700-125	CF®700 Features
100 tests (500 uL)	P009-700-500				
CF®820	822/835 nm	40 ug/mL	25 tests (125 uL)	P009-820-125	CF®820 Features
100 tests (500 uL)	P009-820-500				
APC-Astral™813	633, 638/813 nm	50 ug/mL	25 tests (125 uL)	P009-A813-125	
100 tests (500 uL)	P009-A813-500				
R-PE	496, 546, 565/576 nm	60 ug/mL	25 tests (125 uL)	P009-RPE-125	
100 tests (500 uL)	P009-RPE-500				
APC	651/660 nm	50 ug/mL	25 tests (125 uL)	P009-APC-125	
100 tests (500 uL)	P009-APC-500				

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