

CD3e Monoclonal Mouse Antibody (SK7) - Biotium Choice

CD3e (clone SK7) is a validated mouse monoclonal antibody that recognizes the epsilon chain of the CD3 protein complex and T cell co-receptor. The antibody belongs to the Biotium Choice list of select antibodies that have been validated and optimized in-house for optimal performance.

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Product Description

CD3e (clone SK7) is a mouse monoclonal antibody derived from the extracellular domain of the CD3 epsilon 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 either a CF® Dye or AstralTM tandem dye. They are supplied in PBS, 0.1% BSA, 0.05% azide.

CD3 consists of five different polypeptide chains (designated as gamma, delta, epsilon, zeta, and eta) with MW ranging from 16-28 kDa. The CD3 complex is closely associated at the lymphocyte cell surface with the T cell antigen receptor (TCR). Reportedly, CD3 complex is involved in signal transduction to the T cell interior following antigen recognition. The CD3 antigen is first detectable in early thymocytes and probably represents one of the earliest signs of commitment to the T cell lineage. In cortical thymocytes, CD3 is predominantly intra-cytoplasmic. However, in medullary thymocytes, it appears on the T cell surface. CD3 antigen is a highly specific marker for T cells, and is present in majority of T cell neoplasms.

As an isotype control, we recommend <u>Isotype Control, Monoclonal Mouse IgG1 Kappa (IGG1/1331)</u> 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 <u>Astral Leap™ tandem dyes</u> for expanding multiplexing
- New antibody clones and dye conjugates continuously in development

View our full catalog of Biotium Choice antibodies

Call us: 800-304-5357

Tumor expression

Product attributes Antibody number #P002 Antibody reactivity (target) CD3e **Biotium Choice Antibody** Primary Antibody type Biotium Choice Flow Antibodies, Primary Host species Clonality Monoclonal SK7 Clone Isotype lgG1, kappa Molecular weight 23 kDa CD3 epsilon; CD3 TCR complex; T cell antigen receptor complex Synonyms epsilon subunit of T3; T-cell surface antigen T3/Leu-4 epsilor chain; T-cell surface glycoprotein CD3 epsilon chain; T3E; TCRE; TiT3 complex Human gene symbol CD3E Entrez gene ID 916 SwissProf P07766 Unigene Immunogen Human thymocytes Antibody target cellular Plasma membrane Verified antibody Flow (surface) (verified) applications Species reactivity 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-CFM or HI -60 Shipping condition Room temperature Store at 2 to 8 °C, Protect fluorescent conjugates from light Storage Conditions Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Regulatory status For research use only (RUO) Conjugates: PBS/0.1% BSA/0.05% azide Antibody/conjugate Volume per assav 5 uL/test Antibody research areas Immunology Cell/tissue expression Lymphocytes, T-cells 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.

Leukemia/lymphoma

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<u>CF®405S</u> 411	/431 nm			Catalog No.	Dye Features
		300 ug/mL	25 tests (125 uL)	P002-405S-125	CF®405S Features
100 tests (500 uL) P00	02-405S-500	-	, ,		
<u>CF®405M</u> 416	/452 nm	300 ug/mL	25 tests (125 uL)	P002-405M-125	CF®405M Features
100 tests (500 uL) P00	<u> 2-405M-500</u>				
<u>CF®405L</u> 413	/547 nm	200 ug/mL	25 tests (125 uL)	P002-405L-125	CF®405L Features
100 tests (500 uL) P00	<u> </u>				
<u>CF®488A</u> 490	/516 nm	200 ug/mL	25 tests (125 uL)	P002-488A-125	CF®488A Features
100 tests (500 uL) P00	<u>)2-488A-500</u>				
<u>CF®503R</u> 503.	/532 nm	200 ug/mL	25 tests (125 uL)	P002-503R-125	CF®503R Features
100 tests (500 uL) P00	<u>02-503R-500</u>				
<u>CF®514</u> 516	/549 nm	200 ug/mL	25 tests (125 uL)	P002-514-125	CF®514 Features
100 tests (500 uL) <u>P00</u>	<u>)2-514-500</u>				
<u>CF®568</u> 562	/584 nm	200 ug/mL	25 tests (125 uL)	P002-568-125	CF®568 Features
100 tests (500 uL) P00	<u>)2-568-500</u>				
<u>CF®575</u> 571.	/601 nm	150 ug/mL	25 tests (125 uL)	P002-575-125	
100 tests (500 uL) P00	<u>12-575-500</u>				
RPE-Astral TM 616 496	, 546, 566/617 nm	100 ug/mL	25 tests (125 uL)	P002-R616-125	
100 tests (500 uL) P00	<u>)2-R616-500</u>				
<u>CF®647Plus</u> 652	/668 nm	100 ug/mL	25 tests (125 uL)	P002-647P-125	
100 tests (500 uL) P00	<u>12-647P-500</u>				
<u>CF®660C</u> 667	7/685 nm	300 ug/mL	25 tests (125 uL)	P002-660C-125	CF®660C Features
100 tests (500 uL) <u>P00</u>	<u>12-660C-500</u>				
<u>CF®700</u> 696	/721 nm	200 ug/mL	25 tests (125 uL)	P002-700-125	CF®700 Features
100 tests (500 uL) <u>P00</u>	<u>12-700-500</u>				
<u>CF®820</u> 822	/835 nm	20 ug/mL	25 tests (125 uL)	P002-820-125	CF®820 Features
((<u>12-820-500</u>				
		100 ug/mL	25 tests (125 uL)	P002-RPE-125	
(/	02-RPE-500				
		200 ug/mL	25 tests (125 uL)	P002-APC-125	
100 tests (500 uL) <u>P00</u>	02-APC-500				

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