

Datasheet: MCA6147A488

BATCH NUMBER 163669

Description:	MOUSE ANTI HUMAN CD3:Alexa Fluor® 488
Specificity:	CD3
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	SK7
Isotype:	lgG1
Quantity:	100 TESTS/1ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				Neat

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Farget Species Product Form	Human Purified IgG conjugated to Alexa Fluor® 488 - liquid				
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm		
	Alexa Fluor®488	495	519		
reparation	D :				
:paration	Purified IgG prepared supernatant	i by affinity chromatogi	rapny on Protein G		
	• , ,		rapny on Protein G		
uffer Solution reservative tabilisers	supernatant	aline (NaN ₃)	rapny on Protein G		

Immunogen	Human CD3ε
External Database Links	UniProt: P07766 Related reagents
	Entrez Gene: 916 CD3E Related reagents
Synonyms	T3E
Specificity	Mouse anti Human CD3 antibody, clone SK7 recognizes the T-cell surface glycoprotein CD3 epsilon chain (CD3ε), also known as T-cell surface antigen T3/Leu-4 epsilon. CD3ε is a subunit of the TCR-CD3 cell surface receptor complex, which is expressed at the surface of mature T cells, NKT cells and thymocytes (Mariuzza et al. 2020). The CD3 complex is required for intracellular signaling and for TCR surface expression. Recruitment of the TCR/CD3 complex initiates early events leading to proliferation and

ace antigen T3/Leu-4 epsilon. CD3ε is olex, which is expressed at the (Mariuzza et al. 2020). The CD3 TCR surface expression. events leading to proliferation and differentiation of mature T cells into an effector cell (Guy & Vignali 2009).

Deficiency of the CD3ɛ chain contributes to blocking T-cell development and presentation of a severe combined immunodeficiency (SCID) phenotype (Fischer et al. 2005).

Mouse anti-human CD3, clone SK7 binding to CD3 has been shown to be blocked by clone OKT3 and 12F6 (Li et al. 2005).

Purity	>90 % by SDS PAGE	

Storage

Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch.

Acknowledgements

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Health And Safety Material Safety Datasheet documentation #10041 available at: Information

https://www.bio-rad-antibodies.com/SDS/MCA6147A488

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Regulatory For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: Alexa Fluor® 488 (MCA928A488)

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> Email: antibody_sales_us@bio-rad.com Email: antibody_sales_uk@bio-rad.com Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M419158:230602'

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