

Datasheet: TC018

Description:	ANTI RAT CD3:FITC/CD4:RPE/CD8:Alexa Fluor® 647
Specificity:	CD3/CD4/CD8
Format:	3 Color
Product Type:	Triple Color Reagent
Clone:	1F4 / W3/25 / OX-8
Isotype:	Cocktail
Quantity:	50 TESTS

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.

Antibody Isotypes

CD3 FITC reagent: Mouse IgM
 CD4 RPE reagent: Mouse IgG1
 CD8 A647 reagent: Mouse IgG1

Target Species

Rat

Product Form

Triple Color combination consisting of FITC, RPE and Alexa Fluor® 647 conjugated monoclonal antibodies mixed in optimal ratio - lyophilized

Reconstitution

Reconstitute with 0.5 ml distilled water

Max Ex/Em	Fluorophore	Emission Max (nm)	Excitation Max (nm)
	Alexa Fluor®647	665	650
	FITC	525	490
	RPE 488nm laser	578	496
	RPE 561nm laser	578	546

Buffer Solution

Phosphate buffered saline

Preservative

0.09% Sodium Azide (NaN₃)

Stabilisers

1% Bovine Serum Albumin
 5% Sucrose

External Database

UniProt:

Links

[P19377](#) [Related reagents](#)
[Q64159](#) [Related reagents](#)
[P05540](#) [Related reagents](#)
[P07725](#) [Related reagents](#)
[P05541](#) [Related reagents](#)

Entrez Gene:

[25710](#) Cd3d [Related reagents](#)
[300678](#) Cd3g [Related reagents](#)
[24930](#) Cd8a [Related reagents](#)
[24931](#) Cd8b [Related reagents](#)
[24932](#) Cd4 [Related reagents](#)

SynonymsCd8b1, T3d

Specificity

Anti Rat CD3:FITC/CD4:RPE/CD8:Alexa Fluor® 647 is a triple color reagent which can be used for the phenotyping and enumeration of mature rat T-cell populations.

Antibodies produced by clone 1F4 recognize rat CD3, a 25 kDa cell surface antigen which is expressed by mature rat T-cells.

Antibodies produced by clone W3/25 recognize the rat CD4 cell surface glycoprotein, a 55 kDa molecule expressed by helper T cells and weakly by monocytes.

Antibodies produced by clone OX-8 recognize the rat CD8 alpha cell surface antigen, expressed by a subset of T lymphocytes, most thymocytes and the majority of NK cells.

Flow CytometryUse 10ul of the suggested working dilution to label 1×10^6 cells in 100ul

Storage

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life18 months from date of reconstitution

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10075 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

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