

## Datasheet: TC018

<b>Description:</b>	ANTI RAT CD3:FITC/CD4:RPE/CD8:Alexa Fluor® 647
<b>Specificity:</b>	CD3/CD4/CD8
<b>Format:</b>	3 Color
<b>Product Type:</b>	Triple Color Reagent
<b>Clone:</b>	1F4 / W3/25 / OX-8
<b>Isotype:</b>	Cocktail
<b>Quantity:</b>	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](http://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	Excitation Max (nm)	Emission Max (nm)
Alexa Fluor®647	650	665
FITC	490	525
RPE 488nm laser	496	578
RPE 561nm laser	546	578

### Buffer Solution

Phosphate buffered saline

### Preservative

0.09% Sodium Azide (NaN<sub>3</sub>)

### 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](#)

**Synonyms**

Cd8b1, T3d

**RRID**

AB\_1055657

**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 Cytometry**Use 10ul of the suggested working dilution to label  $1 \times 10^6$  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.

**Guarantee**

12 months from date of despatch

**Acknowledgements**

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**Health And Safety Information**

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

**Regulatory**

For research purposes only

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