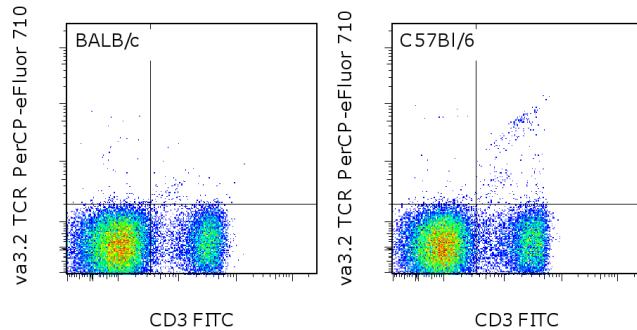


## Anti-Mouse V alpha 3.2 TCR PerCP-eFluor<sup>®</sup> 710

**Catalog Number:** 46-5799

**Also known as:** Valpha3.2, Va3.2

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of BALB/c (left) and C57Bl/6 (right) splenocytes with Anti-Mouse CD3e FITC (cat. 11-0031) and 0.06  $\mu$ g of Anti-Mouse V alpha 3.2 TCR PerCP-eFluor<sup>®</sup> 710 (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Mouse V alpha 3.2 TCR  
PerCP-eFluor<sup>®</sup> 710

**REF** **Catalog Number:** 46-5799

**Clone:** RR3-16

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Rat IgG2b, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**



### Description

This RR3-16 monoclonal antibody reacts with the mouse T cell receptor (TCR) V alpha 3.2 chain. Composed of an alpha and beta chain, TCR specificity is typically determined by Va, Ja, Vb, Db, and Jb gene rearrangement. The RR3-16 antibody recognizes the V alpha 3.2 chain on T cells from mouse strains bearing the *b* (e.g., C57BL/6) or *c* haplotype (e.g., SJL, SWR, and NOD) in the *Tcr**a* gene complex. The V alpha 3.2 chain is absent in mice with the *a* (e.g., Balb/c, AKR, C3H) and *d* (e.g., DBA/1 and DBA/2) haplotypes. Studies demonstrate that the V alpha 3.2 TCR is more highly expressed on CD8<sup>+</sup> T cells.

### Applications Reported

This RR3-16 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This RR3-16 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor<sup>®</sup> 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor<sup>®</sup> 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor<sup>®</sup> 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Click here or contact eBioscience Technical Support for more information on eFluor<sup>™</sup> Organic Dyes including PerCP-eFluor<sup>®</sup> 710.

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## Anti-Mouse V alpha 3.2 TCR PerCP-eFluor® 710

**Catalog Number:** 46-5799

**Also known as:** Valpha3.2, Va3.2

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### References

Richman SA, Aggen DH, Dossett ML, Donermeyer DL, Allen PM, Greenberg PD, Kranz DM. Structural features of T cell receptor variable regions that enhance domain stability and enable expression as single-chain ValphaVbeta fragments. *Mol Immunol.* 2009 Feb;46(5):902-16. (RR3-16, FC)

Utsunomiya Y, Bill J, Palmer E, Gollob K, Takagaki Y, Kanagawa O. Analysis of a monoclonal rat antibody directed to the alpha-chain variable region (V alpha 3) of the mouse T cell antigen receptor. *J Immunol.* 1989 Oct 15;143(8):2602-8. (RR3-16, FC)

### Related Products

11-0031 Anti-Mouse CD3e FITC (145-2C11)

46-4031 Rat IgG2b K Isotype Control PerCP-eFluor® 710

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