Datasheet: MCA2690GA

Description: HAMSTER ANTI MOUSE CD3

Specificity: CD3

Format: Purified

Product Type: Monoclonal Antibody

Clone: 145-2C11

Isotype: IgG

Quantity: 0.1 mg

RRID: AB_10672024

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).

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<th>Application</th>
<th>Yes</th>
<th>No</th>
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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.

Target Species: Mouse

Product Form: Purified IgG - liquid

Preparation: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution: Phosphate buffered saline

Preservative Stabilisers: 0.09% Sodium Azide (NaN₃)

Carrier Free: Yes

Approx. Protein Concentrations: IgG concentration 1.0mg/ml
Immunogen


External Database Links

UniProt: P22646 Related reagents

Entrez Gene: 12501 Cd3e Related reagents

Fusion Partners

Spleen cells from hyperimmunized Armenian hamsters (Cricetulus migratorius) were fused with cells of the murine SP2/0 myeloma.

Specificity

Hamster anti Mouse CD3 antibody, clone 145-2C11 detects CD3 epsilon (CD3ε), a ~20 kDa transmembrane protein also known as CD3 or T3. CD3ε is a member of the CD3 complex which consists of four subunits, gamma, delta, epsilon and zeta, and these are associated to the T cell receptor (TCR). TCR plays a critical role in T cell development and function, and is responsible for ligand recognition. It interacts non-covalently with the CD3 dimers delta/epsilon, gamma/epsilon and zeta/zeta which transduce signals from the TCR into the cell.

CD3ε is primarily expressed on T cells, NK-T cells, and at different levels on thymocytes during T cell differentiation.

Hamster anti Mouse CD3 antibody, clone 145-2C11 is useful for in vitro blocking and activation assays, as well as apoptosis induction and in vitro T cell depletions.

Flow Cytometry

Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul.

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).

References


**Storage**

Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

18 months from date of despatch.

**Health And Safety Information**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

Goat Anti Hamster IgG (STAR79...) **Biotin, FITC, HRP**

Goat Anti Hamster IgG (STAR104...) **DyLight®800, FITC**

**Recommended Negative Controls**

**HAMSTER (ARMENIAN) IgG NEGATIVE CONTROL (MCA2356)**

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