# Product Details

**Description:** MOUSE ANTI MOUSE MHC CLASS I: FITC

**Specificity:** MHC CLASS I

**Format:** FITC

**Product Type:** Monoclonal Antibody

**Clone:** 2G5

**Isotype:** IgG2b

**Quantity:** 0.1 mg

### 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).

<table>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Neat - 1/5</td>
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Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

**Target Species**

Mouse

**Species Cross Reactivity**

Reacts with: Rat, Guinea Pig, Sheep, Bovine, Pig, Human, Hamster

*N.B.* Antibody reactivity and working conditions may vary between species.

**Product Form**

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

**Max Ex/Em**

<table>
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<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<tr>
<td>FITC</td>
<td>490</td>
<td>525</td>
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**Preparation**

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide

1% Bovine Serum Albumin

**Approx. Protein Concentrations**

IgG concentration 0.1 mg/ml

**Immunogen**

Purified H-2K<sup>b</sup> and H-2D<sup>d</sup> MHC-I molecules.

**Fusion Partners**

Spleen cells from immunised C1D mice were fused with cells of the X63 myeloma cell line.
Specificity

**Mouse anti Mouse MHC Class I antibody, clone 2G5** recognizes a monomorphic epitope present on murine MHC class I molecules, expressed at varying levels on the majority of nucleated cells. The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In mice, this complex is referred to as the histocompatibility 2 (H-2) region. The epitope recognised by clone 2G5 is conformation dependent and is reported to be phylogenetically conserved (Claesson et al. 1994). Reactivity has been observed with some canine samples suggesting that this antibody may recognize a polymorphic epitope of canine MHC class I.

Flow Cytometry

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

References

14. Reid E et al. (2016) Type I and III IFNs Produced by Plasmacytoid Dendritic Cells in Response to a Member of the *Flaviviridae* Suppress Cellular Immune Responses. *J Immunol.* Apr 6. pii: 1600049. [Epub ahead of print]

Further Reading

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information


Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)