Datasheet: MCA1348

Description: MOUSE ANTI CAT MHC CLASS II MONOMORPHIC
Specificity: MHC CLASS II MONOMORPHIC
Format: S/N
Product Type: Monoclonal Antibody
Clone: vpg3
Isotype: IgG1
Quantity: 2 ml

RRID AB_321619

Applications

<table>
<thead>
<tr>
<th>Method</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td>✓</td>
<td></td>
<td></td>
<td>Neat</td>
</tr>
<tr>
<td>Immunohistology - Frozen (1)</td>
<td>✓</td>
<td>✓</td>
<td></td>
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<tr>
<td>Immunohistology - Paraffin</td>
<td></td>
<td>✓</td>
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<tr>
<td>ELISA</td>
<td>✓</td>
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<tr>
<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
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</tbody>
</table>

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.

(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

Target Species: Cat

Species Cross Reactivity: Does not react with: Human

Product Form: Tissue Culture Supernatant - liquid

Preparation: Tissue Culture Supernatant containing 0.2M Tris/HCl pH7.4 and 5-10% foetal calf serum

Preservative Stabilisers: 0.09% Sodium Azide

Immunogen: IL-2 dependent feline T cells.
Spleen cells from immunised BALB/c mice were fused with cells of the NS0 mouse myeloma cell line.

**Specificity**

Mouse anti Cat MHC Class II antibody, clone vpg3 recognizes a monomorphic determinant on feline MHC class II molecules. Monomorphic The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In cats, this is referred to as the feline leukocyte antigen (FLA) region.

Mouse anti Cat MHC Class II antibody, clone vpg3 recognizes monomorphic feline MHC class II molecules which are expressed by antigen presenting cells, B cells, monocytes and both activated and resting T lymphocytes.

**Flow Cytometry**

Use 50ul of the suggested working dilution to label 10^6 cells in 100ul.

**References**

1. Willett, B.J. et al. (1993) Infection with feline immunodeficiency virus is followed by the rapid expansion of a CD8+ lymphocyte subset. *Immunology 78: 1-6.*

**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**

Material Safety Datasheet documentation #10055 available at:


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

- Rabbit Anti Mouse IgG (STAR12...) RPE
- Rabbit Anti Mouse IgG (STAR13...) HRP
- Goat Anti Mouse IgG (H/L) (STAR117...) FITC

**Recommended Negative Controls**

- MOUSE IgG1 NEGATIVE CONTROL (MCA1209)