Datasheet: MCA636GA
BATCH NUMBER 1709

Description: MOUSE ANTI PIG IgG2
Specificity: IgG2
Format: Purified
Product Type: Monoclonal Antibody
Clone: K68 Ig2
Isotype: IgG1
Quantity: 0.1 mg

Product Details

Applications

<table>
<thead>
<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>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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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  Pig

Product Form  Purified IgG - liquid

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 (NaN3)

Carrier Free  Yes
Approx. Protein Concentrations

| IgG concentration | 1.0 mg/ml |

Immunogen

| Porcine IgG2 |

Fusion Partners

| Spleen cells from immunised mice were fused with cells of the mouse P3-X63-Ag8.653 myeloma cell line. |

Specificity

**Mouse anti Pig IgG2, clone K68 Ig2** recognizes porcine IgG2 and shows no cross-reactivity with IgG1, IgA or IgM. IgG2 (IgG2a and IgG2b), along with IgG1, IgG3 and IgG4, comprise the major known subclasses of IgG in swine. Combined, the various subclasses of IgG comprise approximately 85% of immunoglobulin in porcine serum.

Studies using clone K68 Ig2 have demonstrated that along with IFNγ, porcine IgG2 levels are significantly elevated in parasite infections by worm species such as *Schistosoma japonicum* (Tian, F. et. al. 2010). With changes in agricultural practices and the emergence of new strains of porcine diseases, it has been suggested that new methods of vaccine development should be investigated. Studies have shown that antibodies recognizing porcine immunoglobulins such as clone K68 Ig2 may have potential use in porcine vaccine development studies (Rodríguez-Calvo, T. et. al. 2010).

Clone K68 Ig2 forms part of a range of monoclonal antibodies specific for porcine immunoglobulins and immunoglobulin subclasses that are available from Bio-Rad.

References


5. Lin, D. *et al.* (2011) Multiple vaccinations with UV-attenuated cercariae in pig enhance protective immunity against *Schistosoma japonicum* infection as compared to single vaccination. Parasit Vectors. 4:103.


9. Rodríguez-Calvo, T. *et al.* (2010) New vaccine design based on defective genomes that...


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

Guarantee
12 months from date of despatch

Health And Safety Information
Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA636GA

Regulatory
For research purposes only

Related Products

**Recommended Secondary Antibodies**

- Goat Anti Mouse IgG (STAR77...) **HRP**
- Rabbit Anti Mouse IgG (STAR12...) **RPE**
- Goat Anti Mouse IgG IgA IgM (STAR87...) **Alk. Phos., HRP**
- Goat Anti Mouse IgG (STAR76...) **RPE**
- Goat Anti Mouse IgG (Fc) (STAR120...) **FITC, HRP**
- Rabbit Anti Mouse IgG (STAR13...) **HRP**
- Goat Anti Mouse IgG (STAR70...) **FITC**
- Goat Anti Mouse IgG (H/L) (STAR117...) **Alk. Phos., DyLight@488, DyLight@550, DyLight@650, DyLight@680, DyLight@800, FITC, HRP**
Rabbit Anti Mouse IgG (STAR9...)  FITC

Recommended Useful Reagents

MOUSE ANTI PIG IgG1 (MCA635GA)
MOUSE ANTI PIG IgA (MCA638GA)

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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