Datasheet: MCA2182

Description: MOUSE ANTI SALMONID Ig

Specificity: Ig (SALMONID)

Format: Con S/N

Product Type: Monoclonal Antibody

Clone: 5F12

Isotype: IgG2a

Quantity: 0.5 ml

Product Details

RRID: AB_324309

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>
<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>Immunohistology - Resin</td>
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<td>ELISA</td>
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<td>1/250 - 1/1000</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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<td>1/250 - 1/1000</td>
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<tr>
<td>Immunofluorescence</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: Fish

Product Form: Tissue Culture Supernatant - liquid (concentrated)

Preservatve Stabilisers: 0.09% Sodium Azide

Immunogen: Rainbow trout and Atlantic salmon immunoglobulins.

Fusion Partners: Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS0 myeloma cell line.

Specificity: Mouse anti Salmonid Ig monoclonal antibody, clone 5F12 recognizes salmonid immunoglobulin heavy chain, binding to Immunoglobulins of several genera of the subfamily *Salmoninae*, including: *Salmo* *Oncorhynchus* *Salvelinus*
Binding of Mouse anti Salmonid Ig monoclonal antibody, clone 5F12 to immunoglobulin of the related salmonid subfamilies *Coregoninae* (Whitefish) and *Thymallinae* (Graylings) has not been evaluated. Mouse anti Salmonid Ig monoclonal antibody, clone 5F12 does not appear to bind immunoglobulin of other fish species such as *Siniperca chuatsi* (Mandarin Fish or Chinese Perch) or *Danio rerio* (Zebra fish).

Disease organisms such as *Aeromonas salmonicida*, the causitive agent of furunculosis, *Renibacterium salmoninarium* which causes bacterial kidney disease in salmonids and *infectious hematopoietic necrosis* virus are major fish health concerns for salmonid aquaculture globally. Mouse anti Salmonid Ig monoclonal antibody, clone 5F12 has been utilized for the evaluation of the immunoglobulin response in multiple studies looking at pathogen and parasite exposure (*Henriksen* et al. 2015) and in a number of vaccine studies evaluating vaccine components, administration routes and schedules (*Marana* et al. 2017).

**Western Blotting**
This antibody detects a band of approximately 71 kDa using Salmon immune serum.

**References**
injection vaccinated against *Yersinia ruckeri* 

**Fish Shellfish Immunol.** 47 (2): 797-806.


**Clin Vaccine Immunol.** 20: 1623-41.

15. Deshmukh, S. *et al.* (2013) Adverse and long-term protective effects following oil-adjuvanted vaccination against *Aeromonas salmonicida* in rainbow trout. 
**Fish Shellfish Immunol.** 42: 193-203.

16. Soltani, M. *et al.* (2014) Effect of Montanide™ IMS 1312 VG adjuvant on efficacy of *Yersinia ruckeri* vaccine in rainbow trout (*Oncorhynchus mykiss*). 
**Fish Shellfish Immunol.** 37: 60-5.

**Aquaculture.** 440: 1-5.

18. Marana, M.H. *et al.* (2016) Positive correlation between *Aeromonas salmonicida* vaccine antigen concentration and protection in vaccinated rainbow trout *Oncorhynchus mykiss* evaluated by a tail fin infection model. 
**J Fish Dis.** Sep 5. [Epub ahead of print]

**Aquaculture.** 464: 262-7.


**Fish Shellfish Immunol.** 44 (2): 485-95.


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**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**

18 months from date of despatch.

**Health And Safety Information**


**Regulatory**

For research purposes only

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**Recommended Products**

**Recommended Secondary Antibodies**

- Goat Anti Mouse IgG IgA IgM (STAR87...) **Alk. Phos., HRP**
- Goat Anti Mouse IgG (STAR77...) **HRP**
- Rabbit Anti Mouse IgG (STAR12...) **RPE**
- Rabbit Anti Mouse IgG (STAR8...) **DyLight®800**
- Rabbit Anti Mouse IgG (STAR13...) **HRP**
- Goat Anti Mouse IgG (STAR76...) **RPE**
- Goat Anti Mouse IgG (STAR70...) **FITC**
Goat Anti Mouse IgG (Fc) (STAR120...)  FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)  FITC
Human Anti Mouse IgG2a (HCA037...)  FITC, HRP
Goat Anti Mouse IgG (H/L) (STAR117...)  Alkaline Phosphatase, DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP

Recommended Useful Reagents

MOUSE ANTI RAINBOW TROUT Ig (MCA5976)
MOUSE ANTI INFECTIOUS SALMON ANEMIA VIRUS (ISAV) (MCA5977)
MOUSE ANTI FLAVOBACTERIUM PSYCHROPHILUM:FITC (MCA5978F)
RABBIT ANTI SALMONID Ig (AHP761)